

Kayta is an Amplifier

NOT GOOD AT

gardening or doing
sums in her head

CAREER

software engineer
at the ABC

EXPERT ON

building the tools and systems
that make sure people get the
news straight to their inbox

GOOD AT

cooking and reading
books

USED TO

be an expert marketer, but
is now on a new path

STUDIED

at software engineering
bootcamp to learn new skills

GOAL

to build really cool
things and to represent
women in tech

ADVICE

stay true to who you are



Capability Convos

Australian Curriculum V9.0 links for
Years 3 to 7

English

- Language
- Literacy

General Capabilities:

- Critical and Creative Thinking
- Personal and Social Capability
- Ethical Understanding
- Literacy

Learning outcomes:

All students will be able to:

- identify some likes, dislikes, strengths, abilities and/or interests when showing a personal preference
- acknowledge that people have different needs, emotions and abilities

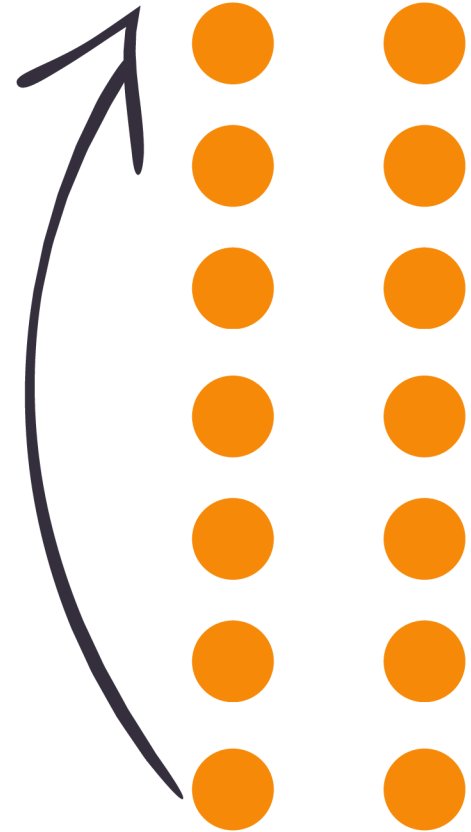
In addition, some students will be able to:

- describe the ways they are connected and can contribute to their community groups

Format

- Interactive game with 10 questions
- Easy to play
- Watch Kayta's film with the class
- Print the questions
- Play the game
- Modify or include new questions based on students' needs

Scan this QR code to watch
my film.



Instructions for students

Line the class up in two lines facing each other to form pairs. Ask the first question. Once each pair has discussed it, get one line to move one person to their right. The person at the end runs around to the other end of the line. Then you ask the next question and repeat the process until all the questions have been asked.

Kayta

Software Engineer

Question 1

What do you think is interesting about Kayta's career?

Question 6

How do you think Kayta's career contributes to society?

Question 2

What skills does Kayta have that you also have, and does she have any skills you don't have that you would like to have?

Question 7

Why is this career important in a rural or remote location?

Question 3

How does software engineering help build a better world?

Question 8

What kind of tools or technologies do you think Kayta uses in her work?

Question 4

Why do you think it's important to find a career that matches your personality?

Question 9

When would teamwork be important in Kayta's line of work? Can you think of an example of when you use teamwork?

Question 5

How are your current interests and hobbies similar to Kayta's hobbies and interests?

Question 10

What do you think would be challenging about changing jobs and why do you think that?

Comprehension Questions

Australian Curriculum V9.0 links for Years 3 to 7

English

- Literacy

General Capabilities:

- Literacy

Learning outcomes:

All students will be able to:

- Identify that all people have strengths and weaknesses
- Actively think about what is happening in various texts as they read them
- Apply comprehension strategies to different media formats

In addition, some students will be able to:

- Identify different reasons for doing different jobs

Instructions:

- Format/print the students' question sheets (or load them onto school LMS) and direct students to a copy.
- Read the questions as a class to start, discussing any meanings
- Discuss with the class strategies for being able to answer the questions as they learn about Kayta.
- Watch Kayta's film as a class, encouraging students to answer questions as you go

Adaptation note: Questions can be modified on the PDF to meet students' needs or learning focus areas in your classroom

Comprehension questions

1. Name two things Kayta is good at.
2. And two things Kayta can't do.
3. What career did Kayta used to have?
4. What inspired Kayta to make the change from marketing to software engineering?
5. What does Kayta say was the hardest part about changing careers?
6. Who does Kayta say she loves spending time with outside of work?
7. How does Kayta stay connected to her creative side?
8. What does Kayta say makes her a better engineer?
9. What impacts does Kayta want to have in her job?
10. What advice does Kayta have for people thinking about changing jobs?

Scan this QR code to visit my page



Comprehension Questions

Name two things Kayta is good at.

1.

2.

What inspired Kayta to make the change from marketing to software engineering?

Name two things Kayta can't do.

1.

2.

What does Kayta say was the hardest part about changing careers?

What career did Kayta used to have?

How does Kayta stay connected to her creative side?

Who does Kayta say she loves spending time with outside of work?

What does Kayta say makes her a better engineer?

What advice does Kayta have for people thinking about changing jobs?

What impacts does Kayta want to have in her job?

Comprehension Questions -Answer key

1. Name two things Kayta is good at:

1. Cooking up a really good meal.
2. Devouring a book in just a couple of days.

2. And two things Kayta can't do:

1. Keep a plant alive.
2. Do sums without a calculator.

3. What career did Kayta used to have?

A career in marketing.

4. What inspired Kayta to make the change from marketing to software engineering?

Her curiosity about how technical things work.

5. What does Kayta say was the hardest part about changing careers?

Starting from the bottom again.

6. Who does Kayta say she loves spending time with outside of work?

Her husband and her nephew.

7. How does Kayta stay connected to her creative side?

Through art, drawing, watercolours, gardening, music, and cooking

8. What does Kayta say makes her a better engineer?

Taking breaks and doing creative things outside of work.

9. What impacts does Kayta want to have in her job?

She wants to build cool things and champion more women into tech.

10. What advice does Kayta have for people thinking about changing jobs?

"Just do it."

Did you enjoy this free activity? We have lots more related to different STEM careers.
Explore them all at: www.futureyouaustralia.com.au/pathfinders

Software Engineer

Kayta is a software engineer who keeps people up to date with what's happening in the world. Kayta used to work in marketing, but became more interested in the technical side of her job, which inspired her to change her career pathway.

futureyouaustralia.com.au/pathfinders/kayta



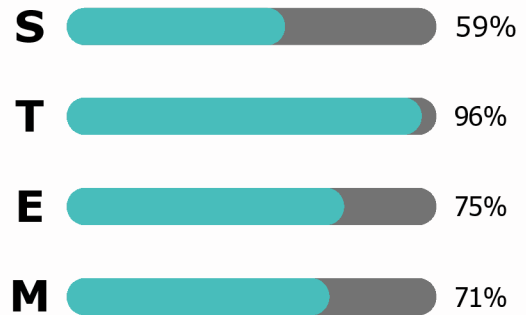
"My curiosity about how things work led me from marketing into software engineering."



SCAN ME

STEM Meter

How much Science, Technology, Engineering and Mathematics (STEM) does this job use?



Source: jobsandskills.gov.au

5 reasons why you should do this job

- 1 Solve problems with creative thinking.
- 2 Build cool apps, games, and tools.
- 3 Keep learning as technology changes.
- 4 Work with smart, creative teams.
- 5 Shape the future through innovation.

3 STEM skills required for this job

Programming

Evaluation

Communication

Subjects to develop these skills

Digital Technologies, Mathematics

English, HASS, Science, Technologies, The Arts

English, Digital Technologies, HASS, Mathematics, Science, The Arts,

An example of a day in the life of a software engineer

- 7.30am** I start my day with coffee and make a really tasty breakfast for myself and my husband. He loves my cooking, and cooking helps me start my day in a positive way.
- 8.30am** I am working from home today, so I log in and check the dashboard that shows how all our newsletters are running. If something isn't working, it's my job to get it fixed it before the morning rush.
- 9.15am** Team stand-up time! That's our short daily meeting where we share what we're working on and any problems we need help with. My team's great. We support each other a lot.
- 10.00am** Today I'm improving part of our API. API is a tool that helps move stories from journalists to readers' inboxes. It feels good to know my code helps people read the news they love.
- Midday** Lunch! I stretch my legs and grab sushi from the café down the street. When I'm in the office, I eat with a few colleagues who also work in tech. We chat about new tools and funny coding bugs. Today though, I sit by the river and watch enjoy the peace and quiet.
- 1.00pm** Back to work. I join a quick call with the marketing team to check how our system is handling a big new campaign. I like these chats. They connect the creative and technical sides of my work.
- 3.30am** I test my new code with a teammate. We use "pair programming," where two people work on one problem together. It's a great way to learn new tricks and spot errors faster.
- 4.15pm** The day's nearly done. I write notes for tomorrow and update our shared board with what's finished. Before logging off, I double-check that everything's running smoothly.
- 5.00pm** Work finished! I close my laptop and head out for an afternoon walk. Moving after a day of thinking helps me unwind.
- 7.00pm** Dinner at my mum's tonight with the whole family. I get to spend time with my nephew who always makes me laugh. He's a bundle of energy, and he always makes me happy.
- 9.00pm** My husband and I arrive home, and I want to do some painting while listening to music. Staying creative outside of work helps me be a better engineer.
- 11.00pm** I read for a bit before bed. Usually a mystery novel or something about design. Tomorrow I'll wake up ready to solve more puzzles with code.

Software Engineer

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futureyouaustralia.com.au/pathfinders/kayta

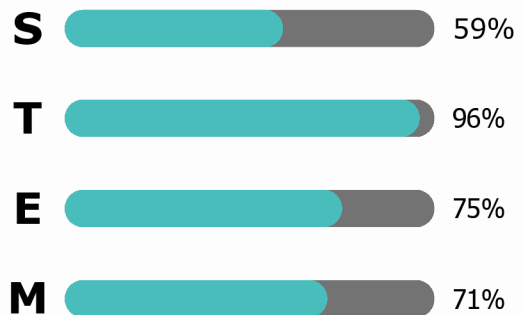


"My curiosity about how things work led me from marketing into software engineering."



STEM Meter

How much Science, Technology, Engineering and Mathematics (STEM) does this job use?



Source: jobsandskills.gov.au

Job stats and facts

Location: It's estimated 9-16% of software engineers live outside capital cities.

Employment pathways:

A bachelor or postgraduate degree in a related field or a vocational education and training (VET) qualification.

3 STEM skills required for this job	Subjects to develop these skills	3 other jobs that value this skill
Programming	Digital Technologies, Mathematics	Web Developer, App Creator, Game Designer
Evaluation	English, HASS, Science, Technologies, The Arts	UX Designer, Program Manager, Business Analyst
Communication	English, Digital Technologies, HASS, Mathematics, Science, The Arts	Social Worker, Radio Host, Financial Advisor

Other careers related to this line of work

People

Developer Relations
Developer Marketing
Sales Engineer
Technical Recruiter



Product

Quality Assurance
Test Engineer
Business Analyst
Program Manager



Support

DevOps Engineer
Database Administrator
Site Reliability Engineer



Teaching

Technical Writer
Trainer



Analytical

Data Scientist
Security Analyst
Research and Development

The world is changing rapidly, and this means the career possibilities available to our kids are wide-ranging and exciting (and probably don't exist yet!).

From traditional vocations to emerging fields, there are countless pathways to be explored.

Parents and teachers can create environments that encourage kids to discover and investigate possible careers that match their skills and interests.

We've included some links to other valuable resources that can help guide career conversations and explorations. Find out more at:

www.futureyouaustralia.com.au/resources/#other

Pathfinder Workwords

Software Engineer

C A E I I O R M J K I N E N D L Q C E M D A M
O M U S I C A E C T E R L G I A O F I B I T A
O E Y R T R B A M E E A L U A D G V A S F A R
K I N X G E R G S C K E J D I P D C U O I D K
I F B O T E A V G H W L W N R Y B O P E Y H E
N S R Z E X X M T B K T G Z R A I E P C H T T
G P I R E M X V W R U S I G N R W L W G M N I
F P C G A R D E N O O I L M U F J I F V E M N
G D R E T U P M O C R P L C M T J T N W T T G
T Y N K E M U D N M X K P D L Z F X S G E S E
W D S B G Z G H T K A T N U U G Z L G Y C O R
A L D Y K J F S D R Y U E B S V E X G B V Q A
O B R V L T M O T F U F T I M T N K F H J J K
H F E J Q M E L B O R P A N T R Z N R A U F X
L F U V A I S D N E I R F E B Z S Z N U Q T H
G R S F O B R X T N M T R Z Z S K M G D T U F

Find 20 words connected to Kayta.

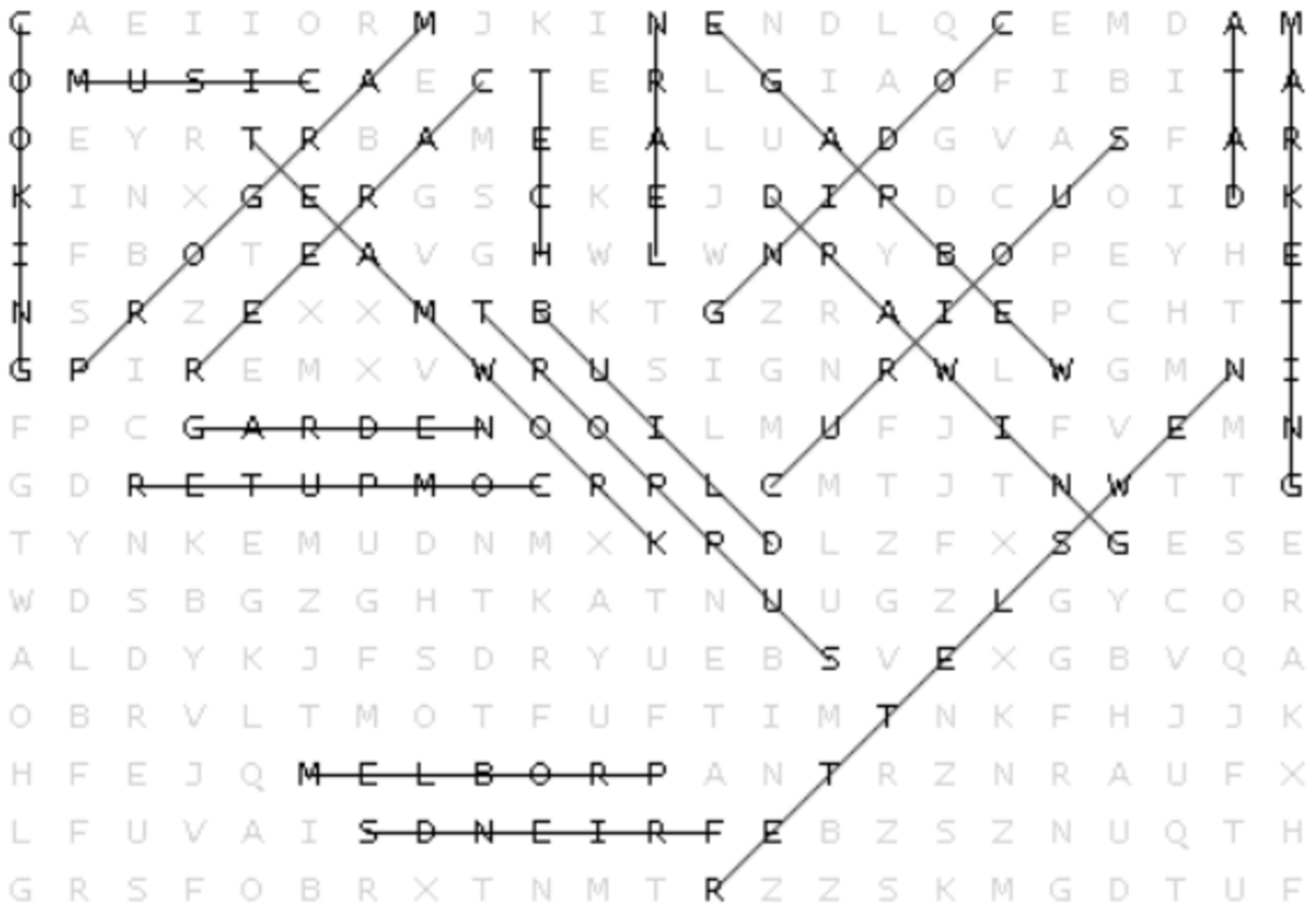
- | | |
|---------------|----------------|
| 1. DRAWING | 11. CAREER |
| 2. COOKING | 12. FRIENDS |
| 3. CODING | 13. SUPPORT |
| 4. COMPUTER | 14. LEARN |
| 5. WEBPAGE | 15. CURIOUS |
| 6. DATA | 16. GARDEN |
| 7. PROGRAM | 17. BUILD |
| 8. MUSIC | 18. TECH |
| 9. TEAMWORK | 19. NEWSLETTER |
| 10. MARKETING | 20. PROBLEM |

Scan this QR code to find out more about Kayta.



Pathfinder Workwords

Answers



Let's reflect

Were any of these words new to you? Look them up and find out what they mean.

Which of these skills do you think you are best at, or would like to get better at?

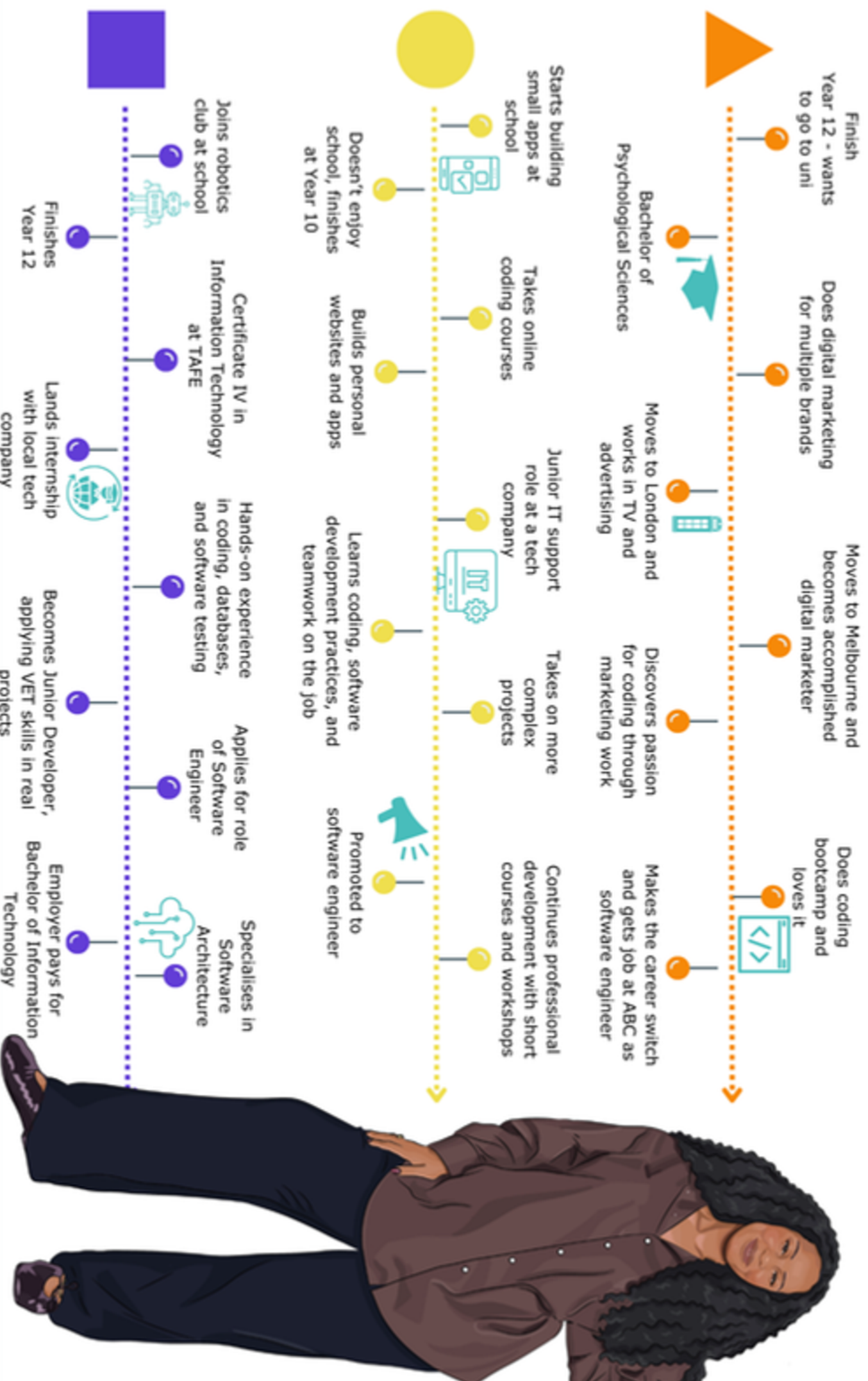
1. _____

2. _____

3. _____

Can you think of anything else Kayta might need to do her job?





Software Engineer career pathways

Find out more at www.futureyouaustralia.com.au/resources/#other/

FUTUREyou

The educational qualifications and levels outlined in these pathways are intended as general guidelines. To obtain accurate and up-to-date information, explore resources specific to your state or territory, available through websites like *myfuture.edu.au*, *YourCareer.gov.au* and *australianapprenticeships.gov.au*.

There is also a range of financial support available for students doing apprenticeships or going to university, visit *www.servicesaustralia.gov.au/education* to see what's available.



- Bachelor of Psychological Sciences: <https://www.coursesseeker.edu.au/>
- Coding Bootcamp: www.generalassembly



- Online coding courses: <https://www.skillfinder.com.au/online/computer-coding-courses>



- Certificate IV in Information Technology: <https://training.gov.au>
- Bachelor of Information Technology: <https://www.coursesseeker.edu.au>



Remember, there are countless pathways to the same career. Each child's unique skills, interests, and strengths will guide them on their personal journey to success.

Software Engineer career pathways

Find out more at www.futureyouaustralia.com.au/resources/#other/

FUTUREyou