MONASH University

SOFTWARE ENGINEERING



FACULTY OF
INFORMATION TECHNOLOGY
DISCIPLINE GUIDE

SO YOU'RE INTERESTED IN

SOFTWARE ENGINEERING

Develop digital systems, applications, frameworks, interfaces and tools that support diverse user needs.

GREAT IF YOU LOVE

- **DESIGN**
- **EFFICIENCY**
- **PRACTICAL CREATIVITY**
- **CODING AND PROGRAMMING**

GAIN SOUGHT-AFTER EXPERTISE

Monash will equip you with:

TECHNICAL SKILLS

- Software architecture and design
- Software processes and management
- Software quality and testing
- Algorithms and data structures
- Operating systems

POWER SKILLS

- Critical thinking
- Problem-solving
- Analytics
- Communication and presentation
- Teamwork and collaboration

PICK YOUR PATHWAY

Bachelor of Agentic Software Engineering	3 years FT/6 years PT Clayton	**ATAR**[1]**:** 80+ **IB:** 28 **MG:** 75
Bachelor of Agentic Software Engineering (Honours)	4 years FT/8 years PT Clayton	**ATAR**[1]**:** 85+ **IB:** 31 **MG:** 75
Bachelor of Information Technology with a major in Software Development	3 years FT/6 years PT Clayton	**ATAR**[1]**:** 73 **IB:** 26 **MG:** 73
Bachelor of Information Technology with a major in Agentic Software Engineering	3 years FT/6 years PT Clayton	**ATAR**[1]**:** 73 **IB:** 26 **MG:** 75
Bachelor of Computer Science with a specialisation in Algorithms and Software	3 years FT/6 years PT Clayton	**ATAR**[1]**:** 80.15 **IB:** 28 **MG:** 78

1 Indicative ATAR, subject to change

A LOOK INTO THE CRYSTAL BALL

Top emerging careers you could pursue in software engineering include:

DEVOPS ENGINEER
Automate and streamline development, deployment and infrastructure processes.

BACK-END DEVELOPER
Build and maintain server-side components and databases for web applications.

SOFTWARE ENGINEER
Design, develop and maintain a range of software solutions to solve real-world problems.

FRONT-END DEVELOPER
Implement user interfaces and experiences for web applications.

APP DEVELOPER
Create and maintain mobile applications for diverse platforms and users.

FULL STACK DEVELOPER
Develop both front- and back-end components of web applications.

CLOUD COMPUTING ENGINEER
Build and manage cloud infrastructure for scalable applications.

SOFTWARE ARCHITECT
Design high-level software structures and frameworks for development projects.



WHAT OUR STUDENTS SAY

"Monash does a great job at teaching you how to collaboratively transform a folder of code into a polished, robust product."

MADELEINE
Software Engineering (Honours) and Science student

EAGER TO LEARN MORE?

Scan the QR code to read our latest course guide and learn about prerequisites, student life and other helpful information.

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