



# LEIGHTON MESSINA

## JUNIOR SOFTWARE ENGINEER

### PERSONAL INFORMATION

Date of Birth: 13 September 2003      Drivers License: Yes

### PROFILE

Final-year Computer Science and Computer Engineering student with hands-on industry experience as a Software Development Intern at Amazon Web Services (AWS). Strong foundation in backend development, software engineering principles, and Agile collaboration. Known for quickly adapting to complex systems, writing production-quality code, and working effectively in team-based engineering environments. Actively seeking a Junior / Graduate Software Engineer role.

### INDUSTRY EXPERIENCE

#### SOFTWARE DEVELOPEMENT INTERN

##### Amazon Web Services (AWS) EC2 Dedicated Host Team

In Person  
Jun 2025 - Aug 2025

- Contributed production-quality backend code to internal tooling supporting the EC2 Dedicated Host platform
- Assisted in designing and implementing new backend features to improve reliability and operational visibility
- Enhanced internal service components and developer-facing interfaces used by engineering and operations teams
- Participated in Agile development practices including sprint planning, stand-ups, code reviews, and design discussions
- Delivered code aligned with AWS engineering standards, security best practices, and maintainability guidelines

### PROJECTS

#### Public Trasporation Web Application (Final Year Capstone)

*Python, React, REST APIs, SQL*

Team Project  
Aug 2025 - Oct 2025

- Designed and developed a full-stack public transportation web application as part of a final-year capstone project
- Implemented backend services in Python to handle core application logic and data processing
- Designed and exposed RESTful APIs consumed by a React-based frontend
- Integrated a SQL database to support data persistence, querying, and application state management
- Applied software engineering best practices including modular design, API abstraction, and maintainable code structure

#### Systems, Embedded & Image Processing Projects

*C, C++, Embedded Systems*

- Developed embedded software in C for STM32 microcontrollers as part of embedded systems coursework
- Implemented low-level functionality involving hardware interaction and basic signal processing concepts
- Completed an image processing project in C++ focusing on data manipulation and performance considerations
- Strengthened understanding of systems-level programming, memory management, and hardware-software interaction

### ADDITIONAL EXPERIENCE

#### CO-FOUNDER & TUTOR

*Intellectus Academy*

In Person  
Apr 2024 - Nov 2024

- Co-founded a tutoring initiative providing Mathematics, Physical Sciences, and Accounting support to high school students
- Delivered structured lessons and academic guidance to Grades 10-12 learners

#### Mathematic Tutor

*Rocklands High School*

In Person  
Apr 2024 - Oct 2024

- Tutored Mathematics to classes of 30-40 Grade 8, 9, and 11 students
- Helped learners improve conceptual understanding and academic performance

#### Orientation Leader

*University of Cape Town*

In Person  
Apr 2024 - Oct 2024

- Supported first-year students during university orientation through mentoring, campus tours, and academic guidance

### CONTACT

- 066 466 1333
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- 61 Boschof Way ,  
Westridge, Mitchells Plain

### EDUCATION

#### UNIVERSITY OF CAPE TOWN

- Bachelor of Science in Computer Science & Computer Engineering
- Expected Completion: 2025 (Results Pending)

### SKILLS

#### TECHNICAL SKILLS

- Programming Languages:** Java, Python, C#, JavaScript, TypeScript
- Frameworks & Tools:** React, .NET, HTML, CSS
- Databases:** SQL
- Concepts:** Object-Oriented Programming, Data Structures: REST APIs, Software Engineering, Agile Development

#### Additional Skills

- Computer literate
- Interpersonal Communication

### LANGUAGES

- English
- Afrikaans

### REFERENCES

#### Craig Hatting

AWS Team Manager

Phone: 079 137 6198

more references available on request