

# Nathan Shaheen

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Penultimate year Master of Information Technology student seeking Software Engineering Internships. References available upon request.

## Education

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| <b>University of New South Wales</b><br><i>Master of Information Technology</i> <ul style="list-style-type: none"><li>Activities: Computer Science and Engineering Society (CESoc), DevSoc</li></ul>  | <i>Feb. 2025 - Nov. 2026</i><br><i>Sydney, Australia</i> |
| <b>Macquarie University</b><br><i>Bachelor of Engineering (Honours) - Software Engineering</i> <ul style="list-style-type: none"><li>Awards: Department of Computing - Academic Excellence (2020 &amp; 2021)</li><li>Thesis: Development of Driving Prediction Machine Learning Models Leveraging Human Attention-Based Vision</li><li>Grade: Honours Class II Division 1 (H2A)</li></ul> | <i>Feb. 2019 - Nov. 2024</i><br><i>Sydney, Australia</i> |

## Experience

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| <b>Software Engineering Intern</b><br><i>Aubot</i> <ul style="list-style-type: none"><li>Developed and deployed features to the Learning Management System (LMS) using Java, Python and React, based on user feedback and stakeholder requirements.</li><li>Developed 5,500 interactive coding formats in Java and Python for the LMS alongside a team of 5 members.</li><li>Conducted bug verification of the LMS through testing and weekly updates based on user feedback and data analytics.</li></ul> | <i>Jun. 2024 - Aug. 2024</i><br><i>Sydney, Australia</i> |
| <b>Computing Drop-In Centre Assistant</b><br><i>Macquarie University</i> <ul style="list-style-type: none"><li>Assisted students 1-on-1 and in small group settings, across undergraduate and postgraduate computing units.</li><li>Taught 100+ students across the following units: Fundamentals of Computer Science, Algorithms &amp; Data Structures and Web Technology.</li></ul>  | <i>Feb. 2024 - Jun. 2024</i><br><i>Sydney, Australia</i> |

## Projects

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|---|---|
| <b>Interactive Point-and-Click Web Application</b> <ul style="list-style-type: none"><li>Developed, hosted and deployed a web application using React.js, Node.js and Google Cloud Platform (GCP).</li><li>Leveraged GCP Storage to store assets and Cloud Caching to increase performance when loading assets.</li><li>Implemented tests using the Jest framework to ensure feature integrity throughout the development lifecycle.</li></ul>  | <i>React.js, Node.js, Jest, Google Cloud Platform</i> |
| <b>Processing Testing Framework</b> <ul style="list-style-type: none"><li>Implemented static code analysis and code generation for the Processing programming language.</li><li>Utilised GitHub Actions within a CI/CD pipeline, following DevOps practices and procedures to streamline team collaboration and project management for a team of 4 members.</li><li>Streamlined the marking process of 2 Macquarie University Computing units, reducing time spent marking by tutors.</li></ul> | <i>Java, JavaFX, GitHub</i>                           |
| <b>Digit Classification Neural Network</b> <ul style="list-style-type: none"><li>Utilised machine learning techniques, NumPy and Pandas to develop a 2-layer neural network that determines digits depicted in images to an accuracy of 85.5% after 500 iterations of training on the MNIST database.</li></ul>   | <i>Python, NumPy, Pandas, Matplotlib</i>              |
| <b>Turn-Based Desktop Game</b> <ul style="list-style-type: none"><li>Leveraged Java's AWT, Swing and Concurrency packages to create an immersive user experience.</li><li>Implemented strategy, iterator, and singleton design patterns to organise and improve code quality.</li></ul>   | <i>Java</i>   |

## Skills

**Languages:** Java, Python, JavaScript, HTML, CSS, SCSS

**Technologies and Tools:** React.js, Node.js, JavaFX, Jest, Google Cloud Platform, Google Firebase, NumPy, Pandas, Matplotlib, Git, GitHub, Jira, Confluence