

# NATHAN HUNTER

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## EDUCATION

### Bachelor of Computer Science

Feb 2021 – Dec 2023

University of Wollongong, Wollongong, NSW, Australia

Major in Cyber Security

- Graduated with Distinction

### Bachelor of Science

Feb 2020 – Dec 2020

University of Wollongong, Wollongong, NSW, Australia

Major in Cell/Cellular, and Molecular Biology

### Python 3 Certificate

Apr 2023 – Sep 2023

Codecademy,

Learn Intermediate Python 3 Online Course

## WORK EXPERIENCE

### Software Engineer

Mar 2024 – Present

GetData Software Development Company, Kogarah, Sydney, NSW

Implement new features and extend software functionality using advanced decryption solutions and AI-driven methodologies, enhancing performance, security, and user satisfaction.

- **Developed advanced decryption solutions** for iOS/Android backups, WeChat, and major web browsers, enhancing data recovery and ensuring secure decryption with algorithms like AES and complex key derivation techniques.
- **Collaborate in teams and independently**, demonstrating leadership and the ability to work autonomously and within a team to solve complex technical challenges.
- **Developed custom libraries** to enhance image processing capabilities, significantly improving overall software performance, and extending usability for users.
- **Utilized AI-driven tools and methodologies** to streamline coding and improve code clarity.

### Freelance Mobile Application Developer

Aug 2023 – Present

Thirroul, Wollongong, NSW

Collaborated with healthcare professional in engineering a secure, user-friendly, full-stack mobile application enhancing personal assistant disability patient care.

- **Utilizing React Native for cross-platform compatibility**, ensuring seamless operation across iOS and Android devices. Integrated Firebase for robust backend services, including user authentication, database management, and analytics, to support scalable, real-time data processing.
- **Facilitated 7+ collaborative sessions with healthcare professional** to gather requirements and feedback, which has been instrumental in guiding the development process and ensuring the final product will effectively meet the targeted needs.

### Software Engineer Intern

Jan 2021 – Jan 2022

GetData Software Development Company, Kogarah, Sydney, NSW

Maintained existing software through bug fixing and enhancements.

- **Created and configured multiple virtual machines** with various file systems for software testing.
- **Played a key role in a team effort to integrate the AFF (Advanced Forensic Format) library** into our software suite, enriching the product's capabilities and my skills in software development.
- **Managed forensic disk images** and data dumps, using EnCase for comprehensive E01 analysis.

Moderated one of the largest Australian CS:GO servers, overseeing community engagement and maintaining a positive gaming environment for players worldwide.

- **Enforced server rules and guidelines**, demonstrating strong leadership and decision-making skills in high-pressure situations.
- **Resolved conflicts** between players, fostering a supportive and respectful community. Maintaining a positive gaming environment.

## PROJECTS

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### Social Stories

Current 2024

Technologies: React.js, Node.js, Express.js, SQL, MUI Core

- **Our team developed a web application for creating personalized social stories** to help children with autism enhance social understanding and communication. Offers a user-friendly platform for caregivers and educators to craft stories tailored to individual needs.
- **Achieved third place in the UOW ICT trade show** recognizing the project's innovation, technical excellence, and potential impact on the community.
- **Actively involved in transitioning 'Social Stories'** from a university project to a startup company, collaborating with multidisciplinary teams to refine the product and prepare for market release.
- **Led the programming team**, leveraging React.js and Material-UI.

### Machine Learning-Based Resistor Identification System

Jul 2023

Technologies: Python, Keras, TensorFlow, Pandas

- **Developed a CNN** that classifies 37 different resistor types from images with over 90% accuracy.
- **Implemented data augmentation and preprocessing techniques** to improve model robustness and accuracy, enabling reliable identification under varied lighting and angles.

## TECHNICAL SKILLS

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**Technical Proficiencies:** Expertise in Python, C++, Java, Delphi, OOP.

**Full-Stack Development:** Experienced in JavaScript (React, React Native), Node.js, Express.js, SQL, and MongoDB with proficiency in integrating RESTful APIs.

**Machine Learning:** Proficient in Python-based frameworks including Keras, TensorFlow, and PyTorch.

**Cybersecurity:** Competent in Kali Linux, Windows (7-11), PowerShell and virtualization technologies.

**Agile & DevOps:** Experienced in agile methodologies, Jira, Git, and system administration best practices.

## ADDITIONAL ACTIVITIES

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### Volunteer Work

- Volunteered at Figtree Anglican Church's soup kitchen and supported Disability Trust events; completed The Duke of Edinburgh's Award, emphasizing leadership and community service.

### Sporting Achievements

- Played competitive soccer for the Heathcote Waratah FC
- Regularly participate in weekly local parkrun events.