CIAN ROBERTS   
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Australian Citizen

Summary

Graduand of UTS with a Bachelor of Engineering (Majoring in Software) and Honors First Class, with 12 months of proven industry experience in full-stack application development.   
I love solving interesting problems and working collaboratively.  
I take pride in my ability to rapidly learn new technologies and adapt to any challenge.

Highlights

* Experience in writing algorithms, scripting, API development and UI/UX design.
* Exposure to a wide range of programming languages and technologies.
* Exposure to classification and autoencoder AI models.
* 12 months of professional experience in full stack webapp development.
* Strong written and verbal communication skills developed through teamwork, documentation and project presentation.

Other Accomplishments

* Received certificate for the 2024 OpenD/I Data Verification Hackathon hosted by Openmesh. I was one of 20 people from an initial 200 to be in a final screening group for a potential hire.
* Captain of Debating in final year of college. I worked in coaching with junior and senior debaters, as well as assisting with the organisation of over 50 students on our hosting nights.
* Academic Excellence award for ranking 1st within the college in the subject of Information Processes and Technology, and ranking 2nd within the college in the subject of Software Design and Development.

Tools / Technologies

* Python, JavaScript, HTML5, CSS3, SQL, C, C++, C#, Golang
* Programming frameworks:
  + React.js, GraphQL, React-Redux, .NET, MongoDB, PostgreSQL
* Applications:
  + Windows OS, Linux OS, VS Code, Photoshop, Microsoft Office Products, JetBrains Products, BlueJ.
* I have strong experience in all stages of the software development cycle, including wireframe design, prototyping, presentation, documentation and agile iteration.
* Programming paradigms, Object-oriented programming, Software development cycles.
* Exposure to simple AI classification models
  + I have worked on building, training, and comparing different AI data classification models to accurately predict an airline company based on the data from a given flight. I have also developed a multilayer perceptron classification model with binary output.

Professional Experience

February 2024 to August 2024

**IOT Automation**

Full-Stack Junior Web Developer

IOT Automation produces smart, modular lighting systems for use in underground mines and tunnels.  
As a junior full-stack web developer I was tasked with creating new features as well as optimising performance of the web-app. In my position I:

* Took lead on a major feature project, collaborating with key senior engineers.
* Researched and implemented efficient react-redux architecture and methodologies to vastly improve frontend performance through smarter data management.
* Worked closely with firmware testing by manipulating binary/ASCII characters in python.
* Learned Golang to develop backend API and database structures.

July 2021 to January 2022

**Skodel**

Full-Stack Junior Web Developer

Skodel provides an online platform for organizations to better understand the mental wellbeing of their team.

I worked in a small team developing new features and updates for the web app.  
In my position I:

* Developed UI for both desktop and mobile application views using responsive design, working on building a clean user experience with collapsible views.
* Built password reset functionality through emails and limited time secure access codes.
* Worked with GraphQL to build and update database queries.
* Built and maintained unit tests with CircleCI.

Other Experience

December 2019 – January 2024

JB Hi-Fi

Casual member of Operations team.  
Working with my team and different departments to manage online order fulfilment, technical support, stock management and customer assistance.

Extra-Curricular / Personal Projects

* Created a playable chess game using Python. Added functional UI using the PyGame library allowing for click-and-drag gameplay with two players on one machine.
* Participated in debating, tennis and cricket throughout college years.
* Coached junior tennis students at local club over college breaks (intermittent, 2017-2018).

Education

Graduated 2019

**St. Pius X College, Chatswood**HSC

ATAR of 90.65

**2020 – 2024 University of Technology, Sydney**  
Bachelor of Engineering (Honours), Major in Software, Diploma of Professional Practice

Researched and implemented a series of different autoencoder AI models for denoising EEG data for my Engineering Capstone report.

Academic Transcript

**Results:**  
GPA – 5.94   
WAM – 78.90

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| **2024** | | |
| Network Fundamentals | 94 | HD |
| Software Innovation Studio | 83 | D |
| Engineering Capstone | - | D |
| Cybersecurity | 68 | C |
| Professional Practice Review 2 | PASS | N/A |
| Work Integrated Learning 2 | PASS | N/A |
| Engineering Professional Experience 2 | PASS | N/A |
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| **2023** | | |
| Computer Graphics | 83 | D |
| Introduction to Computer Game Development | 79 | D |
| Real-Time Operating Systems | 78 | D |
| Engineering Project Management | 78 | D |
| Machine Learning | 75 | D |
| Engineering Research Preparation | 70 | C |
| Entrepreneurship and Commercialisation | 65 | C |
| Professional Practise Preparation 2 | PASS | N/A |
|  | | |
| **2022** | | |
| Economics and Finance for Engineering Projects | 93 | HD |
| Software Architecture | 91 | HD |
| Secure Programming and Penetration Testing | 87 | HD |
| Software Analysis Studio | 87 | HD |
| Software Development Studio | 83 | D |
| Design and Innovation Fundamentals | 80 | D |
| Introduction to Data Analytics | 68 | C |
| Professional Practise Review | PASS | N/A |
|  | | |
| **2021** | | |
| Data Structures and Algorithms | 87 | HD |
| Physical Modelling | 86 | HD |
| Software Engineering Studio 1A | 81 | D |
| Information System Development Methodologies | 80 | D |
| Work Integrated Learning 1 | PASS | N/A |
| Engineering Professional Experience | PASS | N/A |
| Engineering Practice Preparation 1 | PASS | N/A |
|  | | |
| **2020** | | |
| Engineering Communication | 79 | D |
| Systems Testing and Quality Management | 77 | D |
| Database Fundamentals | 77 | D |
| Applications Programming | 74 | C |
| Mathematical Modelling 2 | 73 | C |
| Programming Fundamentals | 71 | C |
| Business Requirements Modelling | 70 | C |
| Mathematical Modelling 1 | 59 | P |