

MICHAEL NAUGHTON

Sydney, Australia

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References available upon request

SOFTWARE ENGINEER

Personable, results-driven Software Engineering Student, with over two years of experience in the software development industry. Possesses a demonstrated ability to develop software end to end, from requirements gathering to delivery. Outstanding communicator able to work with diverse colleagues to produce value from business requirements by producing maintainable and scalable software.

TECHNICAL SKILLS

Languages

- TypeScript
- JavaScript
- NoSQL
- YAML
- Python

Tooling

- Git
- Docker
- GitHub Actions
- MongoDB
- Google Cloud Platform

Concepts

- Object Oriented Programming
- Clean Architecture Principles
- REST API Design
- Machine Learning
- Systems Integration/Migration

PROFESSIONAL EXPERIENCE

EVIE NETWORKS | SYDNEY, NSW | AUG 2021 – PRESENT

Software Engineer: Software Team

- Created Microservices related to Electric Vehicle charging infrastructure, deployment, and maintenance.
- Led and participated Agile team rituals such as Backlog Refinement, Showcase, Stand-ups, Retrospectives.
- Applied design patterns and clean architecture software design principles in Typescript frequently.
- Owned wrote of an end-to-end, scalable revenue reconciliation service, invoicing all charging sessions built from independent data streams [Google PubSub, MongoDB].
- Steered a Systems Migration project from Xero to NetSuite, modifying all relevant integrations with external systems.
- Deployed a charging session service, that provides data via REST API endpoints & Google PubSub to internal services.
- Created a Salesforce API Wrapper, satisfying business use cases, i.e externalising budget data input into Salesforce by Construction Project Managers and aggregating Invoice and PO totals retrieved from the Xero API.
- Wrote test cases for a proprietary Energy Management System.

GLOBAL STUDY PARTNERS | SYDNEY, NSW | NOV 2021- AUG 2021

IT Consultant: Development Team

- Conceptualised business owner's technology ideas from an IT perspective and advised developers accordingly on how to implement queries in SQL.
- Gained an insight into development processes within a late stage start up.
- Contributed resources for funding grant proposals to the sum of over \$250,000.
- Leveraged knowledge of Entity Relationship Diagrams and User Story Maps to communicate ideas clearly and objectively.
- Generated value by creating scripts to automate data generation, i.e. generating acronyms for ~15,000 universities for use in user queries.

EDUCATION

University of Technology Sydney, Broadway, NSW: 2023 (Expected)
Bachelor of Engineering (Software) w/ a Sub-Major in Data Analytics

Relevant Coursework:

- High Distinctions achieved in the following.
 - ⇒ Introduction to Biomedical Engineering, involving Digital Signal Processing in MATLAB.
 - ⇒ Economics and Finance for Engineering Projects, involving project management & evaluation methods.
 - ⇒ Software Innovation Studio, devising a web-app integrated with AI into a playable piano, hosted in the browser.
- Distinctions achieved in the following.
 - ⇒ Deep Learning and Convolutional Neural Networks
 - ⇒ Data Structures and Algorithms
 - ⇒ Introduction to Data Analytics
 - ⇒ Systems Testing and Quality Management

PROJECTS

University of Technology Sydney, Broadway, NSW: 2021
Deep Learning and Convolutional Neural Networks Major Project

- Awarded an individual mark of 90%.
- Project featured in the UTS AI Showcase 2021.
- Spearheaded the project as a designated group leader of 2 other students, engaging in coordinating, delegating, and compiling all group work. Utilising organisational and managerial skills to ensure project was delivered accordingly to the deadline.
 - ⇒ Singlehandedly developed and trained an accurate and reliable Object Detection model on a custom dataset with pyTorch for implementation in a Django Webapp.
 - ⇒ Trained a model on a new and unusual dataset (PASCAL-Part Dataset) to detect unique parts of cars within any input image.
- [See here for the GitHub repository.](#)
- [See here for a functional demo.](#)

University of Technology Sydney, Broadway, NSW: 2022
Software Innovation Studio Major Project

- Awarded an individual mark of 93%.
- Designated as a group leader of 3 other students and developed a Webapp for human assisted AI music generation.
 - ⇒ Led decision making throughout the project, from product conception to delivery.
 - ⇒ Was the Project Manager and Lead Engineer, developing and sizing functional requirements for Sprints in Jira.
- [See here for the GitHub repository.](#)
- [See here for a functional demo.](#)

ADDITIONAL CREDENTIALS

HONOURS & AWARDS	<ul style="list-style-type: none">▪ Featured in the UTS AI Showcase 2021
PROFESSIONAL DEVELOPMENT	<ul style="list-style-type: none">▪ UTS Microsoft Skills Bootcamp (Azure)▪ Certified Scrum Master
INTERESTS	<ul style="list-style-type: none">▪ Music Production▪ Audio Engineering