
Experience

InGenious AI

Feb 2020 – Present

Full Stack Software Engineer

Melbourne, Australia

- Develop and maintain features for the InGenious AI chatbot platform. Written in Javascript (NodeJS and React) and Python.
- Perform maintenance and monitoring of back-end services and their configurations in Amazon Web Services (Web and CLI).
- Introduced continuous development pipelines to the development workflow at InGenious AI Bitbucket.
- Developed and maintained three new third party messaging integrations into the platform. This directly enabled InGenious AI and partners to expand their client portfolio by at least 2 clients.

University of Melbourne

Feb 2018 – Feb 2020

Tutor and Demonstrator

Melbourne, Australia

- Delivered materials for classes at various levels to students in person while also assisting beyond the classroom via an online student forum.
- Delivered constructive feedback to assignments and exams based on a standardised rubric in a timely manner.
- Classes delivered:
 - * *Introduction to Programming*. Teaches basic programming at Master's Level, focused on students diverting from other disciplines to pursue a postgraduate degree in computing. Taught using Python.
 - * *Media Computation*. Teaches basic programming with a focus on multimedia (images, websites and animations) manipulation. Taught using Python.
 - * *Object Oriented Software Development*. Introduces software modelling and designing abstractions for object-oriented software. Taught using Java.
 - * *Models of Computation*. Penultimate subject teaching theoretical computer science concepts such as formal languages, automata and Turing machines. Taught using Haskell.

University of Melbourne

Jul 2019 – Nov 2019

Research Assistant

Melbourne, Australia

- Formulated a proof-of-concept software for database indexing based on statistical interpolation methods.
- Designed and executed experiments to evaluate different approaches to model data primarily using PyTorch, Python, and Wolfram Mathematica.
- Received honourable mention for "Best Student Paper Award".

Nodeflux

Jan 2018 – Feb 2018

Software Engineer Intern

Jakarta, Indonesia

- Developed a ledger system that enables Nodeflux to sell and verify user licenses. Written using Typescript.
- Designed, wrote, and tested database schemas to log transactions using PostgreSQL.
- Implemented test-driven development using Typescript testing frameworks: Chai, Mocha, and Sinon.

Education

University of Melbourne

Jul 2016 - Jul 2019

Bachelor of Science (Computing and Software Systems)

Melbourne, VIC AU

- Thesis Topic: "Function Interpolation for Learned Index Structures". Work on paper continued as casual research assistant.

Publications

Function Interpolation for Learned Index Structures. Databases Theory and Applications. Australasian Database Conference 2020. p. 68-80.

Setiawan, N., Rubinstein, B.I.P., Borovica-Gajic, R.

Skills

Proficient with – TypeScript and JavaScript, Python, Java, SQL Databases, AWS (Software Development and Deployment)

Working knowledge of – C# (.NET Core), React, Docker, Azure, AWS Security, DevOps, Terraform