# Naufal Fikri Setiawan

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#### Education

## **University of Melbourne**

Jul 2016 - Jul 2019 Melbourne, VIC AU

Bachelor of Science (Computing and Software Systems)

- Thesis Topic: "Function Interpolation for Learned Index Structures"
- Weighted Average Mark: 79.18/100 (Second Class Honours)

### Experience

**InGenious AI** Feb 2020 – Present

Full Stack Software Engineer

Melbourne, VIC AU

- Develop and maintain features for the InGenious AI chatbot platform. Written in Javascript.
- Develop and maintain pipelines for machine learning operations. Written in Python.
- Monitor for platform faults and anomalies and respond to them by introducing appropriate patches.
- Perform maintenance of back-end services and their configurations via Amazon Web Services (Web and CLI).
- Introduced continuous development pipelines to the development work-flow at InGenious AI using Bitbucket Pipelines
- Successfully added two new third party messaging integrations into the platform. Enabling InGenious AI and partnering companies to acquire bigger clients in terms of market share.

### **University of Melbourne**

Feb 2018 - Feb 2020

Tutor and Demonstrator (Casual)

Melbourne, VIC AU

- Delivered materials for many classes at various levels to students in person while also assisting beyond the classroom via an online system.
- Marked assignments objectively according to rubrics and ensuring that grades and feedback are delivered to students in a timely manner while being constructive.
- 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 design and multimedia (images, websites and animations). Taught using Python.
  - \* Object Oriented Software Development. Introduces data 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, automatons and Turing machines. Taught using Haskell.

# **University of Melbourne**

Jul 2019 – Nov 2019

Melbourne, VIC AU

Research Assistant (Casual)

• Formulated a method for database indexing as proof-of-concept and delivered that concept as a conference paper.

- Received honorable mention for "Best Student Paper Award".
- Designed and executed experiments to evaluate different approaches to model data. Done using PyTorch, Python, and Wolfram Mathematica.

Nodeflux Jan 2018 – Feb 2018

Software Engineer Intern (Full Time)

Jakarta, Indonesia

- Developed a ledger system for license activations that enables Nodeflux to sell their software and monitor client license activations. Written using Typescript.
- Modeled, designed and tested database schemas to log transactions using PostgreSQL.
- Implemented test-driven development using Typescript testing frameworks: Chai, Mocha, and Sinon.

#### **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 at – Javascript/Typescript (NodeJS), Python, Java, Web Services Development

Working knowledge of - C# (.NET Core), React, Docker, Terraform, Solutions Architecture using AWS and Azure