Aaron Song

Software engineer previously working in both software development and software research projects, encompassing machine learning, human computer interaction, and data management. Confident in bringing a unique perspective through unique and broad experiences, both inside and outside of the software engineering field.

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EDUCATION

BE in Software Engineering (First Class Honours), *Graduation Year* 2022, The University of Auckland

GPA: 8.1/9.0

Researched the effects of digital multitasking during honours year through the analytics of mobile and desktop activity logs.

EXPERIENCE

ecoPortal, New Zealand | *Software Engineering Intern* | November 2021 - March 2022

Exposed previously difficult to quantify data streams through developing **real-time analytic dashboards** hooking into existing **ElasticSearch** data pipelines.

Trained staff members on new internal tools through creating procedure and training documentation and giving accompanying presentations.

Configured **customer facing** work safety management software solutions working according to an **agile methodology**.

University of Auckland, New Zealand | *Summer Researcher* | November 2020 - March 2021

Researched the use of **object detection models** and **3D modelling** for use in agriculture, to track the growth of various plants, developing an **object detection model** with the **PyTorch** machine learning framework.

Enabled effective plant growth tracking through efficient **data management** utilising **NoSQL databases**.

PROJECTS

Collaborative Spotify Playlist Creator

Created a fully featured voting and selection system for Spotify songs, creating a **Single Page Application** with the **MERN** stack and Spotify APIs, building accompanying testing suites through **JEST**.

Keyboard design and sales

Worked with clients to produce fully custom made keyboards, from outer housings to electronic components and firmware, providing **extensive after-sales support**, including troubleshooting and repairs.

SKILLS

Languages: Python, Java, JavaScript, HTML/CSS, SQL

Frameworks: React, Express, Node, Spring, Hibernate

Tools: Git, Maven, Gradle, CI/CD, Docker

AWARDS

2022 | Senior Scholars Award

Awarded to graduating students who obtained the highest marks in their program.

2020 | First in Course

COMPSYS201 Fundamentals of Computer Engineering

2019, 2020, 2022 | Dean's Honours List

Awarded to students in the faculty of engineering in the top 5% of their discipline.