

# Nathan Yin

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## Objective

I am a self-starter and outspoken communicator who is eager to take responsibilities to prove myself. I enjoy learning new languages, libraries and development tools; but what I'm really hungry for is experience in the industry. I have developed code across the full-stack, and consider myself a problem solver first and foremost. I want to solve interesting problems and gain more experience in the undercurrents of technology; security, data management, DevOps, architecture and CS fundamentals. Currently seeking internships or junior software development opportunities with a focus in Data Engineering and back-end systems starting in 2022.

## Education

**Bachelor of Computer Science (Databases) | University of New South Wales**

*February 2020 – Present*

Penultimate Year Student. Expected Graduation: 2023.

## Skills

**Programming Languages:** Java, Scala, Python, SQL, Javascript

**Platforms:** Linux (Ubuntu, Slackware, Debian)

**Software:** Postgres, Docker, HDFS, Spark, Kafka, Flink, FastAPI (Python), HTTP, Git, Jira, React, BigQuery, dbt, Github Actions

**Communication:** Agile methodology, Data Modeling (UML, relational models, dimensional modeling), Google Data Studio

## Experience

**University of Western Australia | Online**

*Casual 2020-2022*

**Research Assistant / University of Western Australia Law School**

*Modeled data for seminar slides using Microsoft Office Suite for Professor Rick Krever and Peter Mellor.*

## Projects

**Stream Data-Processing Personal Project**

*August 2022*

*Individual project that simulated an activity logger by publishing data to a Kafka topic, formatting data using Apache Flink, then writing unauthenticated data to a PostgreSQL Database.*

- *I architected the project from Agile Proposal to UML to implementation and learnt Kafka and Flink for the project.*
- *Application handles 10000 concurrent requests on a single machine*
- *Scalability to millions of events through Kafka*
- <https://github.com/Yinnerston/Stream-Data-Processing>

**theLook eCommerce Data Pipeline to Dashboard**

*27 November 2022 – Present*

*Data Pipeline from a [BigQuery public dataset](#) to models in dbt to a Google Data Studio dashboard updated daily.*

**Event Management System for COMP3900 (University CompSci Final Project)**

*September 2022*

*I was the Scrum-Master in a Team Project with five contributors for a CRUD app event management system. I worked across the full stack and managed the project using Slack and Jira through Agile development.*

- *I architected the python back-end using the FastAPI library and SQLAlchemy ORM linked to a PostgreSQL database.*
- *Self-taught myself front-end development using React with a focus on best practices to write testable and reusable code.*

## Leadership or Activities

**UNSW CSE Hackathon 2022 | Sydney, NSW**

July

**Team Member**

- *Team project using Docker, React and Google API calls to create a chrome extension that displays related search terms to highlighted text*
- <https://github.com/tunedin-ctrl/Hackathon22>