

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 a lot to learn as I'm starting out at an intern level but I can prove through my actions that I have the grit and motivation to persevere through challenges. I have developed code across the full-stack, and consider myself a problem solver first and foremost. I want a chance to prove myself and solve interesting problems. 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

Communication: Agile methodology, Data Modeling (UML, relational models), Technical reports

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>

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 2022

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>