Peter Derias

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EDUCATION

Bachelor of Science (Computer Science)   January 2020 - December 2023
University of New South Wales
Skills: Python (Flask), C, C++, Rust (Actix), PostgreSQL, JavaScript/TypeScript, React, Docker, Vercel, Java
Graduated with 86.5 (High Distinction) WAM, UNSW Co-op Scholarship program (2020-2023).
Awarded Engineering Dean's list (2020, 2021, 2022), 2nd place WIT hackathon (2021), 4th place CSESoc hackathon (2022).
Volunteered as a Peer Mentor (2021) and StuNet Subcommittee (2020) to introduce first year and postgraduates to CSESoc.

PROFESSIONAL EXPERIENCE

Data Engineering Intern – Nine Entertainment   May 2022 - December 2022, December 2023 - Present
Skills: JavaScript/Typescript, CSS, HTML, React, AWS (S3), GCP (Composer, Serverless functions, BigQuery, Composer), Looker Studio, Tag Manager

- Analysed and collected data from applications ranging from the SMH, the Age, and 9Now to find statistics on user events such as page views, and found user stories for tracking what users enjoy about products.
- Started and handed off a project over 1 month to re-architect a data team's infrastructure in GCP by leveraging Composer and Docker, to support local development and to deliver cost savings and reliability improvements.
- Investigated data to improve Ad visibility, as well as provided tools to product developers for interacting and using Google Ad Manager in a simple programmatic library.

Software Development Engineer – Amazon Web Services   December 2022 - May 2023
Skills: AWS (Redshift, Lambda, Route53, S3, CDK, Cloudformation, RDS Aurora, EC2), Pandas, Numpy, sklearn

- Designed, defended and implemented a system architecture over 6 months to analyse a given team's on-call alerts.
- Allowed for extensibility of a service to onboard new teams in data collection, manipulation and display.
- Saved 2 hours weekly of manual data processing by senior engineers.
- Owned the CI/CD, testing, monitoring, and validation of the cloud-based application.

Software Engineering Intern – Resmed   August 2021 - April 2022
Skills: JavaScript/Typescript, CSS, HTML, React, AWS (S3, ECS, Lambda, Serverless), Docker, Java (Spring), ElasticSearch, Jenkins, MaterialUI, Terraform

- Developed product features using a Java micro-service back-end and Angular.js front-end with review and testing.
- Developed an internal tool written in React and Express for observing environment health and status, saving hours of manual testing time, and saved hours of outage diagnosis time during incidents involving the team.
- Managed back-end, front-end, and deployment of a full stack application to AWS. Refactored large Java projects for more efficient deployments to better leverage server-less tools on AWS.

Tutor – Computer Science and Engineering, UNSW   January 2022 - Present
Skills: JavaScript/Typescript, Git, Linux, NodeJS (Express)

- Led classes of 25 students twice a week. Guided students working in groups, targeting skills such as communication and familiarity with software engineering tools such as git and JavaScript.
- Ran 1 hour tutoring sessions to cover core concepts and answer questions on software engineering development.
- Wrote course exams sat by 700 students, and managed student queries regarding it over a 24 hour exam block.

PROJECTS

Circles Director – CSESoc Projects (https://circles.csesoc.app/)   January 2022 - January 2023
Skills: JavaScript/Typescript, CSS, HTML, React (Redux), AntV, Python (FastAPI), PostgreSQL, MongoDB, Docker

- Maintained a deployed application operating a FastAPI python back-end, and a React/Redux front-end, which aids UNSW students in creating a degree plan and check its validity.
- Transformed project's culture to through improvement of documentation and refinement of code.
- became most visited student-run website at UNSW, with 30k page views over a year.

Syphon Scrum Master – Personal Project (https://syphon-frontend-ugan2hyxwq-ts.a.run.app/)   May 2023 – August 2023
Skills: JavaScript/Typescript, Rust (Actix), React (NextJS), PostgreSQL, Docker, GCP (Cloud Run, gcloud CLI, cloud storage)

- Led a group of 5 in creating a help session aid tool, where tutors to take requests from students about a course.
- Deployed a Rust back-end and NextJS front-end through cloud run to ensure low costs for a low traffic website.
- Improved the development experience by using docker compose for one-click creation of development and production environments, and setting up CD.