Peter Derias

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EDUCATION

Bachelor of Science (Computer Science) - *UNSW Sydney*   January 2020 - December 2023
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 (2020-2023), 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

Amazon Web Services – Software Development Engineer   August 2024 – Present
Skills: AWS (EC2, Route53), Networking Fundamentals

- Just started 😎

Nine Entertainment – Associate Data Engineer   February 2024 – August 2024
Skills: JavaScript/Typescript, GCP (Composer, Cloud functions, BigQuery, Composer, Cloud Run, BigQuery), Terraform

- Built, advocated for, and supported the transition to Infrastructure as Code within the Data organisation.
- Built automated tooling for creating, remediating, and notifying engineers about misbehaving ETL BigQuery jobs.
- Upgraded composer instances, and reduced cloud-based costs by 10% for the Data organisation by cataloguing confusing areas of spend and raising it internally.
- Integrated Data organisation into a company-wide CI/CD pattern by making a bridge between CloudBuild and Concourse, to gain integration and extra flexibility from Concourse and solve long-term quirks in CI/CD.

Amazon Web Services – Software Development Engineer Intern   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, hardened, and documented the service to ensure ease of maintenance after the handover.

Nine Entertainment – Data Engineering Intern   May 2022 – December 2022
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.

Computer Science and Engineering, UNSW Sydney – Casual Tutor (COMP1531 & COMP6991)   January 2022 – May 2024
Skills: JavaScript/Typescript, Git, Gitlab, 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 in COMP1531.
- Taught Rust fundamental concepts and how it compares to other languages in COMP6991.
- Wrote course exams sat by 700 students, and managed student queries regarding it over a 24 hour exam block.

PROJECTS

CSESoc Projects – Circles Director (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 the most visited student-run website at UNSW, with 30k page views over a year.

Personal Project – Syphon Team Lead (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.