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EXPERIENCE _

Research Software Engineer (Python), Australian National University

Sept 2021 - Ongoing

- Designed, developed and documented CoFI (Common Framework for Inference), a pure Python package that links scientific inference problems to a diverse range of solving tools for accessible experimentation and education, as the lead software engineer in a multidisciplinary team
- Designed, developed and documented Espresso (Earth Science Problems for the Evaluation of Strategies, Solvers and Optimizers), a scientific platform that collects, automates and packages cross-language geoscientific inference problems into a single Python package, as the lead software engineer in a multidisciplinary team
- Designed, developed and documented BayesBay, a Python/Cython mathematical package that provides generalised and optimised Bayesian sampling capabilities, as the lead software engineer in a multidisciplinary team
- Developed the team websites (InLab) and maintained Docker containers
- Liaised with a range of stakeholders in academia and industry to understand end-user requirements, present software mentioned above and support collaboration opportunities

Graduate Software Engineer (Java, PostgreSQL), Instaclustr

Aug 2021 - Sept 2021

- Ensured the reliability and high availability of PostgreSQL data on complex cloud infrastructure
- Operated on a company-level database for providing new services and cloud nodes to users

Full Stack Developer (JavaScript), WebUMate

Mar 2021 - May 2021

- Developed a mobile application to coordinate the delivery of aged care services (JavaScript, HTML, CSS, WeChat cloud), as the lead software engineer in a two-person team
- Developed a questionnaire website that follows mental health concerns among university students (Angular, Type-Script, Koa Node.js, AWS), as the lead software engineer in a two-person team
- Developed an online marketplace and bulletin board as a mobile application (Taro, React.js, JavaScript, WeChat cloud) as the lead software engineer in a two-person team

SIDE PROJECTS __

Steering Committee Member, AuScope M@te

Aug 2023 - Ongoing

• Attended steering committee meetings, suggested and supported crucial decisions from the technical aspects

Android Software Engineer (Kotlin, SQLite), the Nasio Trust

Jan 2022 - Ongoing

Developed Collectous, an offline data collection Android application integrated with Google Spreadsheets as a database to be used in the health and agricultural settings in Kenya, as the lead software engineer

Website Developer (Wix), Australian China Alumni Association

Apr 2021 - Ongoing

• Designed and developed the main website as the lead developer

Coach (Python, Django), Django Girls

Aug 2023 - Aug 2023

• Provided one-on-one Django blog website tutoring to girls with diverse technical backgrounds

Team Leader and Software Engineer (Hugo; Python), Asian Women Development Plan

Aug 2022 - Jun 2023

- Designed and developed the main website (Hugo, GitHub Pages, GitHub Actions)
- Provided IT support to the NGO, including automating the volunteer management system and developing a recruitment system
- Led and trained the IT support team of 6 volunteers

EDUCATION

Bachelor of Information Technology (Honours), Australian National University

Jan 2021

• First Class Honours; Major in Intelligent Systems; Minor in Mathematics

SKILLS

Python, Java, JavaScript (Angular, Koa), Kotlin, SQL, HTML/CSS, OCaml; Hugo, Wix Programming & Platforms Databases & Cloud Services **DevOps**

PostgreSQL, SQLite, Azure Database Administration; Basic knowledge of Azure, AWS Experience with CI/CD, Docker, and GitHub Actions.

Project Management Experience leading software development teams and projects