JIAWEN HF

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♀ Canberra ACT, Australia

in @jwhhh

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EXPERIENCE (WORKING)

Research Software Engineer

Australian National University

Sept 2021 - present

♥ Canberra, Australia

• Designed and implemented scientific open-source projects - CoFI and Espresso.

Graduate Software Engineer

Instaclustr

math Aug 2021 - Sept 2021

♥ Canberra, Australia

- Dealt with complex cloud infrastructure cases, particularly PostgreSQL, to ensure reliability and high availability.
- Operated on the company-level database for providing new service and cloud nodes to users

Website Developer

WebUMate

Mar 2021 - Jun 2021

- Canberra. Australia
- Implemented a full-stack WeChat mini program that sells services for the senior group.
- Implemented a questionnaire website, working both in the front-end (Angular and TS) and the deployment of back-end (Koa Node.js and AWS).
- Implemented an App with a React-based framework called Taro, working both in the front-end and interaction with cloud.

EXPERIENCE (VOLUNTEERING)

Lead Android Developer

The Nasio Trust

🛗 Jan 2022 - Present

Developed an offline data collection Android application integrated with Google Spreadsheets as a database.

IT Team Leader: Website Developer

Avoice

Marg 2022 - Jun 2023

• Designed, led, developed and deployed the website for the Asian Women Development Plan International. https://awdpi.org

Website Developer

Australia China Alumni Association

math Apr 2021 - Dec 2021

• Designed and built ACAA new website using Wix. https://austchinaalumni.org/

EXPERIENCE (CASUAL)

Java Course Tutor

Australian National University

Feb 2018 - Nov 2018

- ♥ Canberra, Australia
- Instructed lab classes, answered and resolved students' questions, marked assignments and helped improve the course material
- Java the programming language, data structures implementations, software engineering principles and core computer science

Summer Research Scholar

Australian National University

Mov 2017 - Jan 2018

♥ Canberra, Australia

• Development of a new compiler that translates PyPy's jitcode into Mu (a newly-developed micro virtual machine) intermediate representation

TECHNICAL SKILLS

Python (packaging, scientific computing, Django) Java, OCaml, Kotlin (Android), JS (React.js, Next.js) Azure, Haskell, Matlab, HTML & CSS, SQL, R, C



EDUCATION

Bachelor of Information Technology Australian National University

Feb 2017 - Dec 2019

• Overall GPA: 6.54/7

Major: Intelligent Systems

Minor: Mathematics

Bachelor of Information Technology (First Class Honours)

Australian National University

Feb 2020 - Mar 2021

• Overall GPA: 6.29/7

• Research project: Reasoning about Authentication Hierarchy in First-order Logic - new encoding techniques of authentication properties in security protocols with first-order logic

SELECTED PROJECTS

CoFI

open-source

(Python) (Earth Sciences)

- Common Framework for Inference
- GitHub: https://github.com/inlab-geo/cofi
- · Documentaion: https://cofi.readthedocs.io
- Example set: https://github.com/inlabgeo/cofi-examples

Espresso

open-source (Python) (Earth Sciences)

- Earth Science Problems for the Evaluation of Strategies, Solvers and Optimisers
- GitHub: https://github.com/inlabgeo/espresso
- Documentation: https://geoespresso.readthedocs.io

Collectous

closed-source (Kotlin) (Android

Google Sheets API (Google Drive API)

SQLite

- Time and cost-efficient offline data collection app for poverty alleviation
- · Data stored locally with SQLite; remotely with **Google Sheets**

AWDPI Website

(open-source) (JavaScript) (Next.js)

- Main website for the Asian Women Development Plan International
- GitHub: https://github.com/awdpavoice/awdpi-main-site