Shaoxian (Solaris) He

Full-stack Software Engineer

Portfolio
https://solaris-he.github.io

CONTACT

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LinkedIn
GitHub

EDUCATION

Bachelor of Science (Computer Science)
The University of New South Wales (UNSW)
2019 - 2022

First class honour
WAM: 85.94

Featured Courses:
Computer Vision
Operating Systems
Advanced C++ Programming
Object-oriented (OO) Programming
Digital Circuits and Systems (FPGA)

LANGUAGES

English
Mandarin
Cantonese

INTERESTS

Drone
2D/3D Digital Art
Virtual Reality (VR)
Custom PC Building
Game Development
Emergent Hardware

WORK RIGHT

Temporary Graduate Visa 485
Expire on DEC 2026

REFERENCES

Available upon request

BIO

A **full-stack software engineer** who

- endeavours to develop robust and performant solutions.
- enjoys implementing intuitive and aesthetic interfaces.
- seeks opportunities to learn more about AI and VR.
- always passionated and urges to learn and explore.

Flexible to any tech stack or work environment.

EXPERIENCE

Full-stack Engineer - *Buka Australia Pty Ltd*

JAN 2023 - JUL 2023

- Contributed in building gRPC and RESTful APIs with Golang and Vue.js by grooming and implementing tickets worth more than 100+ story points.
- Streamlined the admin workflow with a CronJob execution, which boosted efficiency by reducing on-call tickets by 20%.
- Setup 5+ Datadog alerts for monitoring production status (error rate, circuit-breaker trigger, loan rejection rate etc.).
- Rectified circuit-breaker implementation that could potentially cause false-negative.
- Disabled redundant dev environment on GCP and related GitLab CI/CD pipeline, reducing the runtime cost by 33%.
- Applied agile software development best practice.

PROJECTS

Cell Segmentation - *UNSW*

Computer Vision (COMP9517) Course Project

- Genereated pseudo masks using watershed algorithm.
- Implmented consistent cell tracking, cell displacement and cell size calculation functions with area-overlap approach. Cell mitosis detection rate is above 50%.
- Tech Stacks: Python, Pytorch, Google Labs, OpenCV.
- GitHub Repo: github.com/Will3577/Cell_Segmentation_Project

TECHNICAL SKILLS

Proficient:
C# (ASP.Net), Golang, Typescript/Javascript (Vue.js), HTML5, CSS

Familiar:
Frontend: React.js, Nuxt.js, Tailwind CSS, Material UI
Backend: Python (FastAPI, Flask), C, C++, Java, PostgreSQL, MySQL
DevOps: GitHub, GitLab CI/CD, Docker
Design: Figma, Adobe Creative Cloud
Tools: Git, VSCode, Visual Studio, Vim, Postman
OS: Linux (Debian based), MacOS

Basic Knowledge:
GCP, AWS, Kubernetes, ArgoCD, Terraform