

Jianqi Zhao

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"Write programs that do one thing and do it well."

Summary

I have a passion for software engineering and all things in Linux. In recent years I have specialised in embedded system and web development. As a very hard worker, I thrive in a team environment. My key strengths are analysis and debugging, and I'm looking to further my skills while helping serve the needs of the business

Skills

Languages	Java, JavaScript, Bash Script
Back-end	Spring, REST API
Front-end	HTML, CSS, React
Database	SQL, Postgres
Testing	Junit, Mockito, MockService
Misc	Git, Gitlab
Devops	Docker, Kubernetes

Work Experience

AUSTRALIAN BUREAU OF STATISTICS

Canberra, Australia

DEV AND PROGRAMMING OFFICER

Aug.2024 - Current

- Designed and implemented robust GitLab CI/CD workflows to replace the to-be-deprecated Jenkins workflows, driving improvements in build automation and deployment efficiency. Wrote detailed documentation to facilitate a seamless transition for the team.
- Developed new features on main ETL system.
- Took responsibility for solving production issues as a member of the on-call roster, ensuring system reliability.
- Refactored Java code to optimize the data acquisition workflow and improving its performance.

MEGAPORT (AUSTRALIA) PTY LTD

Brisbane(remote work), Australia

JUNIOR BACKEND SOFTWARE ENGINEER

Apr.2022 - Jun.2024

- Worked on a major project focused on developing a new microservice based authentication system. This lead to a higher security posture and set us up for a future, more flexible architecture.
- Was the primary maintainer for a microservice which centrally serviced a key client.
- Successfully developed and delivered a robust Multi-Factor Authentication module, exceeding new feature requirements and significantly bolstering security protocols.
- Dramatically enhanced system performance by optimizing slow endpoints, leading to a marked improvement in user experience, streamlining QA processes, and accelerating GitLab pipeline workflows. I contributed to a 6-7.5x improvement in pipeline timings, leading to increased delivery.
- Swiftly identified and rectified critical bugs, demonstrating exceptional problem-solving skills to ensure customer satisfaction and maintain high service standards.
- Actively participated in group meetings, where I contributed to effective problem-solving strategies and showcased significant project achievements.
- Managed the scheduling and execution of software releases, establishing a reliable and efficient release process that guaranteed seamless updates and system stability.
- Spearheaded the integration of asynchronous mode capabilities into the Megaport Cloud Router, marking a pivotal advancement in its functionality and operational efficiency.

WILDLIFE DRONES. CO., LTD.

Canberra, Australia

EMBEDDED SYSTEM ENGINEER

Sep. 2018 - Jul. 2019

- Enhanced the communication system between the payload and base, upgrading it to a bidirectional link, facilitating seamless and free-flowing exchanges between the two.
- Optimized data transmission efficiency by selectively filtering payload data to include only relevant tag frequencies, significantly reducing critical data length.
- Successfully developed and integrated complete control logic for payload operations through the base, enabling comprehensive remote management.
- Achieved a substantial reduction in RTL-SDR sampling duration through strategic code refactoring, thereby increasing the volume of tracking data collected during each field experiment
- Advanced the precision of target localization by devising and implementing more sophisticated signal processing algorithms, enhancing overall position accuracy.
- Introduced an innovative feature that allows users to calibrate the Raspberry Pi Sense HAT directly via our application, eliminating the need for complex terminal commands.
- Authored MATLAB scripts for meticulous analysis of experimental data, generating detailed reports for executive review, thereby informing strategic decisions at the CEO level.

Education

ANU(AUSTRALIA NATIONAL UNIVERSITY)

Canberra, Australia

PH.D CANDIDATE IN ENGINEERING

Feb. 2015 - Aug. 2018

- An Indoor/Outdoor Long Range Tracking System

ANU(AUSTRALIA NATIONAL UNIVERSITY)

Canberra, Australia

M.E. IN ENGINEERING

Feb. 2013 - Dec. 2014

- Second Class Honours - A Division

Reference

Gareth Davies

Service Manager

EMAIL: GARETH.DAVIES@ABS.GOV.AU

Australian Bureau of Statistics

Alex Sipka

Service Manager

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Australian Bureau of Statistics