

Zack Kendall-King

Full-Stack Software Engineer

Brisbane, QLD
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SKILLS / AREAS OF INTEREST

Node • Python • React • Bash • HTML/CSS • Python • Java • Linux • SQL • Git • C • C#

Web • Health/Safety • Education • Fintech • Embedded • ML • Algorithms • Devtools • Tech Talks

Google Kubernetes Engine • Docker • Angular • Github • Open Source

EXPERIENCE

MST Global - *Back End Engineer*

NOV 2022 - APR 2024

Built system enhancements, automation and tooling for an air-gapped mining safety system in Python and Linux / Bash.

- Used PostgreSQL and Grafana to generate monitoring dashboards and reports, as requested by individual mine sites.
- Wrote a custom Python script to automate a Microsoft Word report required by clients. This allowed us to produce reports instantly (instead of ~4hrs).
- Simultaneously managed ~50 mine sites running the software, including secure remote access networking, patching, data migrations, onboarding, and being an on-call support contact.
- Used Jira/Salesforce for managing work to be done.
- Initiated a regular tech talk program in the form of Lunch & Learn sessions, and gave presentations on coding with Python, and domain-specific knowledge sharing.

Languages/tools: Python, Bash, PostgreSQL, Grafana, Linux server/networking mgmt.

National Computer Science School - *Tutor*

JAN 2024 - JAN 2024

Took part in a summer school to teach 90 high school students and teachers how to program in python while teaching them real world soft skills.

Languages/tools: Python, Flask.

Wooshfood - *Full-Stack Engineer (part-time)*

FEB 2022 - NOV 2022

Helped in a UI refactor of this food and beverage ordering website. Site was predominantly Python.

- Frontend was HTML generated from Python (using Odoo library)
- Many CSS fixes, including adding responsiveness for mobile
- Source control with GitHub
- Python automation for an Excel onboarding flow
- Helped prepare a tender for a large client
- Basic use of AWS Cloud (Route53)

Languages/tools: Python, HTML, CSS, Excel.

Queensland Police Service - *Full-Stack Engineer (Internship)*

FEN 2022 - NOV 2022

Developed a React Electron native app to record confidential court data from witnesses. Also had a graphing function.

- Developed user stories working with industry clients
- Source code in GitHub
- Followed agile best practices (daily standups, story points, backlog grooming, sprint planning), some of which I hosted
- Acted as lead developer across both the frontend and backend, mentored and worked with 2 other engineers and one PM

Languages/tools: React, Java, PostgreSQL, Github, Electron.js

Fixion AB - *Full-Stack Engineer (part-time)*

OCT 2019 - FEB 2022

Wrote new plugins for and actively moderated popular Minecraft server (EarthMC - earthmc.net).

- Used Java to write a Minecraft plugin that generated JSON from a live map
- Used Python to write a Discord bot that responded to user commands (e.g. "<townname> <date>") and generated a gif of that town over time (gif made using the pillow library), then posted that gif back to the discord channel
- Initially ran on a Raspberry Pi, now runs on EC2 instances
- Worked remotely with Swedish colleagues overseas
- Also did discord channel moderation, hygiene, feature requests etc

Languages/tools: Python, Java, ML, JS, JSON, databases.

EDUCATION

Queensland University of Technology - *Bachelor of IT (Computer Science)*

GPA: 5.25 (HDs in Introduction to Programming, Introduction to Robotics, and Systems Programming)

Included a capstone project, developing a React Electron app for QLD Police.