Andrew Engelbrecht

Mobile and Web Developer

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leaf-node on Codeberg

Skilled web and mobile developer. Designed, built and launched a Flutter app for Android and Linux that displays, and notifies systems administrators about, server and network alerts. Has experience with with Node.js, front end JavaScript, HTML, CSS, GNU/Linux admin, and more.

Work Experience

Software Developer, Owner, **Sandpiper Codes LLC** — Boston, MA

2024 – 2025

- Built Open Alert Viewer (an app) from scratch, with attention to edge cases and correctness
- Wrote custom Android platform code using Kotlin, for effective app lifecycle management
- Automated builds using git forge actions, and published the app to multiple platforms
- Created and managed an LLC, filed for a trademark, and built an independent web presence

DevOps Engineer, **IEEE SA Open** — Piscataway, NJ (remote)

2023 – 2024

- Corrected, extended, scripted, and documented workflows for upgrading GitLab instances
- Fixed and enabled container-in-container builds, and registry push access for CI / CD workflows
- Audited, discovered, reported and resolved missing backups of critical types of data
- Used GitLab tooling to organize and carefully document work

Web Developer, Senior Sysadmin, **Free Software Foundation** — Boston, MA

2016 – 2023 (Promoted to Senior Sysadmin in 2018)

- Identified security vulnerabilities, and wrote custom patches to secure authenticator code
- Wrote scripts to find mismatched transactions in financial ledger, significantly speeding up audits
- Upgraded critical, decade-old web services, with quality assurance and minimal user disruption
- Developed custom features in back end code for security-sensitive and financially-relevant systems

Education

Brandeis University — Waltham, MA

Neuroscience — 62 credits

Technical Skills

Flutter, Dart, PHP, Node.js, JavaScript, HTML, CSS, Bloc (for Flutter), Kotlin, Git, BASH, Python, SQL, SQLite, PostgreSQL, Linux (Ubuntu, Debian) admin, OCI containers (Docker, Podman), Vim, VS Code