

# Andrew Engelbrecht

Web and Mobile Developer

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[leaf-node](#) on GitHub

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Skilled web and mobile developer. Built and launched a Flutter app for Android and Linux that displays network alert statuses, and notifies systems administrators. Has experience with Node.js, front end JavaScript, HTML and CSS.

## Work Experience

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

2024 - 2025

- Built Open Alert Viewer (the 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 GitHub 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 local registry 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 Dev, Senior Systems Administrator, 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, JavaScript, Node.js, HTML, CSS, Bloc (for Flutter), Kotlin, Git, BASH, Python, SQL, SQLite, Linux, OCI containers (Docker, Podman), VS Code