George Hilliard

1227 Pin Oak Drive #L9 · Flowood, MS 39232

(901) 326-0231 · gmhilliard5@gmail.com · github.com/thirtythreeforty

TECHNICAL SKILLS

Software development: Extensive development experience with Linux, embedded systems, Qt, and Android. Fluent in C, C++, Java, Kotlin, LaTeX, Python, and Rust.

DevOps: Extensive experience with Git-driven workflow, including automated testing and deployment using GitLab continuous integration. Familiar with packaging software via package managers, containers, and firmware images.

EXPERIENCE

Software Engineer, Kopis Mobile, Flowood, MS   *July 2016 – present*

– As part of a small team, developed several rapid-prototype (3 to 6 month) software and firmware packages from scratch. Engineered solutions across several domains including wireless communication, near-real-time signal processing, and software defined radio.

– Bootstrapped multiple custom PIC24 and ARM-based embedded systems using Linux, U-Boot, and FreeRTOS. Connected systems with Android devices and desktops using a variety of protocols, including USB, Bluetooth, and Wi-Fi.

– Wrote client app for in-house Android app delivery mechanism, similiar to Google Play. The app serves as a trusted endpoint for potentially-sensitive updates. Communicated with OEM partner companies so they could demonstrate our software to prospective customers.

– Architected and administered Linux-based server infrastructure serving the entire business. Hosted GitLab, Active Directory on Samba domain controllers, Proxmox, and Unifi networking services. Implemented automated backups of all servers using ZFS.

PERSONAL PROJECTS

Individual contributor to open-source projects

Submitted features and bugfixes upstream to several prominent open source projects, including the Linux kernel, Rust, systemd, RawTherapee, and LineageOS. Familiar with pull request-based and patch-based open-source collaboration.

See GitHub profile (listed above) for a list of other personal projects.

EDUCATION

Mississippi State University   **Starkville, MS**

Bachelor of Science, Computer Engineering   *Fall 2012 – Spring 2016*

– Cumulative GPA: 3.83/4.0 (*summa cum laude*)

– Completed a minor in Business Administration

– MSU Presidential Scholar, and Joseph Barrier Engineering Scholarship recipient