

Kyle Smith

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Technical Knowledge

Languages: Python, Java, Shell/Bash, Groovy, SQL, familiarity with C++, C, TypeScript

Tools: pytest/unittest, Appium, Linux CLI, systemd, Jenkins, Artifactory, Claude Code, Codex, Atlassian Suite, Git, TestRail, Ansible, Docker, MySQL, S3/MinIO, Memfault, Wireshark, Ellisys, Arduino, ESP32, OpenSearch

Skills: E2E IoT testing, embedded automation testing, embedded test infrastructure design, CI/CD creation/integration, agentic coding, Bluetooth stack testing, AWS/GCP infrastructure interfacing, Agile

Professional Experience

Bose Corporation

Apr 2023 - Present

Automation Engineer II, Software QA

- Owned E2E automation QA for the Bluetooth Portable Speakers suite on a shared ARM SoC platform, delivering the platform's fastest regression cycles and fewest critical defects at launch
- Co-developed the first automation framework to cover embedded Linux, RTOS, and companion Android/iOS apps in one codebase, replacing three siloed frameworks; adopted company-wide as a base for teams authoring their own tests with coding agents
- Rebuilt E2E automation pipeline in CI/CD, restoring trust in build promotions, automating results for key stakeholders, eliminating the need for hundreds of manual test hours
- Designed and provisioned next-generation hardware testbeds, consolidating 100+ legacy Windows nodes into ~20 Ansible-provisioned Linux/macOS systems wired into CI/CD, with cloud tooling replacing unreliable physical hardware
- Developed automation for Google Fast Pair integration, serving as internal QA and fulfilling certification requirements for dozens of product releases
- Interviewed candidates, onboarded new team members full-time/contract, led team code/design reviews

Starry, Inc. | *Fixed Wireless Internet Service Provider*

Jul 2021 - Jan 2023

Software Engineer in Test, Jun 2022 - Jan 2023

Validation Engineering Co-op, Jul 2021 - Jun 2022

- Greenlit new firmware releases for feature coverage, field viability, on devices providing tens of thousands of customers with internet access, covering functionality of systemd services and general operations on embedded Linux WiFi devices
- Cut release-cycle validation time 30%+ by automating infrastructure and building data tracking tools

Education

Northeastern University, Khoury College of Computer Sciences

Graduated May 2022

Bachelor of Science in Computer Science

Interests

Home automation, IoT, sustainable energy, music (trumpet playing), DIY crafts/metal casting, film photography