Kyle Smith

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Technical Knowledge

Languages: Python, Java, Typescript/JS, Shell/Bash, SQL, Elixir, C++, C, Rust
Tools: Linux CLI, Systemd, React, Jenkins, Vi, Jira, Git, AWS S3, PostgreSQL, Phoenix, Spring/SpringBoot, JUnit, Python Pytest/Unittest, BndTools/OSGi, Ansible, Docker, Poetry, UNMS, iPerf, Kibana
Skills: Object Oriented Development, Automation Scripting, Back & Front End Web Development, Regression Testing/QA, CI/CD, AWS/GCP Infrastructure Interfacing, Database Design, Git Version Control, Agile

Professional Experience

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
- Developed hundreds of automated regression test cases within OO codebases; covering functionality of systemd services and general operations on embedded linux WiFi devices (Python)
- Cut validation time of release cycles by 30%+ by automating infrastructure, creating internal data tracking tools (Python, Jenkins, Google Drive API, Elasticsearch)
- Built out and maintained dozens of hardware test beds, incl. networking, to allow optimal automated interfacing with proprietary hardware systems
- Supported rapid team growth with regular constructive code review and onboarding of new members

Heila Technologies | *Microgrid Cleantech Startup*   *Jun - Dec 2020*
Software Engineering Co-op
- Implemented backend REST API for a customer-facing web portal, representing power-system data of embedded devices and Distributed Energy Resources (Java OSGi)
- Automated inter-IoT-device configuration operations, converting hours of manual work to minutes of passive runtime (Python, Ansible, Bash)
- Collaborated with power-systems experts to provide software support for algorithms codebase (Python)
- Initiated product planning and development of first IoT cloud data pipeline (Kafka, Zookeeper)

True Fit Corporation | *Fashion Technology SaaS*   *Jan - Apr 2020*
DevOps Engineering Co-op
- Developed internal automation scripts interfacing with dozens of internal/external RESTful APIs to streamline developer processes for a team of 100+ engineers (Python, Bash, PostgreSQL)
- Facilitated migration from AWS to GCP infrastructure, debugging DevOps jobs, scripts, IaC (Python)

Education

Northeastern University, Khoury College of Computer Sciences   *Graduated May 2022*
Bachelor of Science in Computer Science

Interests

Sustainable energy, microgrids, DIY crafts/metal casting, music (trumpet playing), film photography