

Kyle Staub

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I am a full stack distributed systems engineer with six years of experience developing, deploying, and maintaining production-grade, real-time, operations-critical products and developer-oriented automation tooling. I'm a focused, fun, respectful, and collaborative team member immersed in my business domain. I contribute software solutions to socially conscious projects.

Experience

Senior Full Stack Software Engineer @ Tortuga AgTech

Dec '24 ← Sept '21

- △ Architect and implement a configuration management and artifact deployment system in Python and Ansible to operationalize robots at customer sites
- △ Design, develop, and distribute a command-line interface in Python to all Tortuga systems to harmonize operational and engineering tasks and simplify human-robot low-level interactions
- △ Advocate for and deploy an end-to-end telemetry and monitoring platform leveraging OpenTelemetry and the Grafana stack to enable software engineers to visualize and analyze robot logs, metric, and traces
- △ Migrate the team's source code management to GitLab and implement pipelines to execute builds, unit tests, and simulation tests in GitLabCI for the robotic software stack

Full Stack Developer III @ FedEx Services

Sept '21 ← Feb '18

- △ Iteratively refactor backend software systems in Java, using service-oriented and cloud-native architectures
- △ Maintain scan data pipeline for near real-time messaging and reporting for FedEx Express operations
- △ Create and evangelize a continuous integration and release library for Jenkins to increase speed to market for multiple teams' services
- △ Design and build user interfaces with Javascript frameworks for operational users and internal tooling
- △ Recognized with the *FedEx 5-Star Award* in June '20, the company's highest individual contributor award, for outstanding technical leadership and collaboration on the Global Clearance Intercept initiative

Constituent Advocate @ U.S. Senator Michael F. Bennet

Jan '18 ← Mar '16

- △ Advocate for Coloradans through congressional inquiry, information provision, and recording democratic outreach
- △ Hire, train, and manage interns and internship program in the Denver office

Technical Expertise

- » Python, Java, Type/Javascript
- » Linux system administration
- » GitLab/CI, Jenkins
- » Bash, Groovy, Go, Markup languages
- » Git, SQL, REST, PromQL
- » Docker Compose, FastAPI, Spring, Express, SvelteKit, Next.js
- » Kafka, JMS, SQS
- » Postgres, Oracle, SQLite, Redis, S3, BigQuery, HBase, Druid, Solr, Elasticsearch, Loki, Mimir, Tempo, Prometheus
- » Grafana, AppDynamics, Splunk
- » Svelte, Vue, React
- » Docker, Poetry, CMake, Maven
- » Beam, KStreams, Airflow
- » Bare metal, VM, AWS, GCP

Technical Interests

- » Distributed systems, service layers
- » Operational tooling
- » Data pipelining and analysis
- » Production-grade deployment and low-friction development
- » Metrics, monitoring, telemetry, performance analysis
- » Automation, testing, debugging
- » ML, AI, DBs, APIs, CLIs, LLMs, UIs

Human Expertise

- » Communication, collaboration
- » Logic, analysis, critical thinking
- » Documentation, teaching
- » Parenting, partnering, reading, writing, music, playing, learning, tinkering, exploring

Education

B.A. in Philosophy @ CU Boulder

summa cum laude

May '14 ← Aug '10