Jack Kinsey
Senior Developer

www.jkinsey.net   j.jameskinsey@gmail.com

Skills

Programming
Python, TypeScript, POSIX Shell
SQL, HTML, CSS, Rust, Clojure

Systems
Alpine Linux, Ubuntu Linux
Debian Linux, Arch Linux
AWS ECS, RDS, S3, Lambda, VPC,
CloudWatch, IAM, . . .
PostgreSQL, OpenSearch, ClamAV

Tools
Git, Docker, Docker Compose,
Terraform, Kubernetes
GitLab, Neovim, Jira, Confluence

Writing
Project documentation, development design documents
Research, presentation to leadership

About Me

I'm a senior developer with 5 years of experience leading development of greenfield applications, making architectural decisions, responding to changing requirements, and owning end-to-end system development. I'm most fluent in backend and infrastructure, but I'm conversant in frontend and I'm passionate about designing for every layer of software use, from developer to end user.

Selected Experience

Lead Engineer at Booz Allen Hamilton in Washington, D.C.   October 2023–Present
- → Originated data model and custom data ingest package in Python ingesting $10e6$ rows across over a dozen OSINT data sources for customer analyst use. Wrote custom scraping and ETL for half the sources, and guided development of and reviewed code for the remainder.
- → Contributed to application architecture design ingesting $10e5$ documents daily from $10e4$ RSS feeds and $10e5$ incoming email alerts for customer user. Originated backend service in Python to consume feeds and emails and produce events for further processing. Guided development of an event-based web scraping backend service.
- → Originated multiple GraphQL APIs in TypeScript to provide managed access to $10e6$ rows of ingested data across PostgreSQL databases and OpenSearch clusters. Identified and containerized middleware software for syncing data from PostgreSQL to OpenSearch.
- → Developed 10+ Docker images for deployment of applications on AWS ECS while minimizing exposure to CVEs and other security issues. Reengineered inherited custom Discourse Docker image to reduce exposure to CVEs and minimize image size. Built custom container image scanning tool using Trivy to maintain security visibility, substituting for lacking AWS Inspector functionality.
- → Developed Terraform configuration in collaboration with other team members to manage infrastructure across 20+ AWS services.
- → Drafted an analysis of competing vendors of secure container base images to support procurement decisionmaking. Contributed to setting team best practices and continuous workflow improvement. Participated in program increment planning as team lead and member to coordinate with other teams and leads and avoid roadblocks.

As a Staff Engineer: *July 2021–September 2023*
- → Analyzed and documented inherited Java data ingest pipeline for requirements generation and customer reporting.
- → Led development on over a dozen business process and line of business applications in Microsoft PowerApps. Originated design and documentation standards for the development team. Led introductory PowerApps training. Built GitHub automation for one-button Power Platform deploys.

As a Technologist: *August 2019–June 2021*
- → Provided business process workflow notifications to an internal website userbase of $5 \cdot 10e4$ using AWS Lambda.

Independent web developer, programmer, and sysadmin   2013–Present
- → Host and maintain personal infrastructure of 15+ services on Alpine Linux with Docker and Docker Compose.

Education & Certifications

CompTIA Linux+   April 2025
AWS Certified Developer - Associate   September 2023
The Pennsylvania State University   Class of 2019
- → The Schreyer Honors College
- → Bachelor's in Computer Science from The College of Engineering