Aaron Spindler

Senior Software Engineer | Backend and Payments

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SUMMARY

Senior software engineer experienced in Python/Django platforms, payments architecture, and technical design across healthcare, logistics, and government. Proficient with Claude Code and Codex, using AI to accelerate development while applying engineering judgment, code review, and automated testing.

PROFESSIONAL EXPERIENCE

Senior Software Engineer | Pearl Health | 2022 - September 2026

- Led Python/Django payments architecture supporting **500+ providers** and **$55M+** in payments over three years.
- Automated payment validation and streamlined payment workflows, reducing technical debt and eliminating manual bottlenecks.
- Authored technical specifications and led development of financial performance indicators in the client-facing application, giving clients clearer visibility into financial results.
- Led AI enablement initiatives, integrating large language models (LLMs) and automation tools into development workflows to improve engineering efficiency.

Software Engineer | ShippingTree | 2021 - 2022

- Increased test coverage from **5% to 67%** and implemented a GitHub Actions CI/CD pipeline to improve code quality and release speed.
- Led design and development of features and integrations in Django, React, PostgreSQL, Redis, and Celery.
- Served as the primary technical support engineer, working directly with warehouse staff and customers to troubleshoot platform issues and Shopify integrations.

Software Developer | Canada Border Services Agency | 2020 - 2021

- Designed and built a Django web automation application that reduced permit-holder processing time at ports of entry by **93%**, saving **$10M+ annually**.
- Co-chaired the API Center of Excellence; led a team defining agency-wide API standards and best practices.
- Implemented and maintained CI/CD infrastructure to develop and deploy new features with minimal downtime.
- Visited ports of entry, identified bottlenecks, and trained border officers and co-op students on the application.

Aaron Spindler | Projects, Skills and Education

PROJECTS

Photonfolio | Photography Platform | photonfolio.com

- Built a full-stack photography platform with private client galleries, portfolios, and nondestructive photo editing using Django and a Next.js/TypeScript frontend.
- Implemented AI-assisted photo culling and hybrid search combining PostgreSQL full-text search with pgvector semantic embeddings.
- Developed asynchronous image-processing workflows with Celery and Redis, using Cloudflare R2 for storage.

Team.Bio | Employee Engagement Platform | github.com/aaronspindler/Team.Bio

- Built a Django platform for coworker profiles, trivia, and coffee chats; integrated Stripe payment-method setup and signature-verified webhooks.
- Automated monthly per-seat invoicing with Celery using average active company membership, with billing-attempt and error tracking.

RoomScout | Founder & Developer | github.com/aaronspindler/RoomScout

- Founded and built RoomScout, a full-stack Django platform combining roommate discovery with tools for managing shared homes.
- Developed location, price, and amenity filters, saved listings, and room inquiries with email notifications to help prospective roommates find suitable housing.
- Built household invitations, monthly bill tracking and per-person cost splitting, and garbage-day scheduling to coordinate shared expenses and household responsibilities.
- Added automated tests for bill workflows and access permissions; configured Travis CI to run the Django suite across Python versions.

Homelab | Infrastructure and Application Hosting

- Built and operated an application hosting environment spanning on-premises hardware, Proxmox virtualization, TrueNAS storage, and Docker/Dokploy deployments.
- Automated deployments with GitHub Actions; configured Cloudflare Tunnels for access and Prometheus, Grafana, and Loki for monitoring and logging.

TECHNICAL SKILLS

Backend: Python, C#, Django, Django REST framework (DRF), Celery, API design

Data: PostgreSQL, SQL, Redis, dbt, pgvector

Frontend: TypeScript, JavaScript, React, Next.js, Tailwind CSS

Cloud & Containers: AWS, Docker, Kubernetes, Dokploy, Cloudflare R2, Cloudflare Tunnels

Systems & Monitoring: Proxmox, TrueNAS, Prometheus, Grafana, Loki

Delivery & Testing: CI/CD, GitHub Actions, CircleCI, test-driven development (TDD)

EDUCATION

Ontario Tech University | 2015 - 2017

Undergraduate coursework in Computer Science; left to launch RoomScout.