Peter Kang

peterjkang@gmail.com
(973) 229-7771
github.com/kangp3

Full-stack engineer experienced in designing and deploying foundational systems
for business-critical applications in agile environments

Experience

Recurse Center *Brooklyn, NY* Mar '24 — Jun '24	**Participant**

phone — RPi device to connect landline phones on a private VoIP network
homage^2 — wgpu (Rust/Wasm/WebGPU) implementation of Albers' Homage to the Square
midi2apple2 — Compiler to translate from MIDI to Assembly that plays tunes on the Apple //e

Perry Health
New York, NY
May '22 — Mar '23

Engineering Manager
- Managed team of five engineers, focusing on converting FE and BE specialists to a more flexible full-stack team to navigate migration from Aptible to AWS (~95% reduction in cloud costs)
- Coordinated product development of in-house EMR used daily by care team
- Implemented process for zero-downtime service deployment, pull request review, agile rituals
- Architected and coordinated in-place migration of both BE and FE systems from Aptible to a HIPAA-compliant AWS account   (FastAPI, React/Redux)
- Deprecated bespoke websocket architecture in favor of scalable REST architecture in-place
- Introduced automated testing tools on FE and BE   (PyTest, Jest, Cypress)

Aug '20 — May '22   **Software Engineer**

Spell (Acq. Reddit)
New York, NY
Oct '17 — Jul '20

Software Engineer
- Early-stage engineer building product from zero to one, navigating community-first growth and subsequent transition to B2B sales
- Designed, built, and maintained demand-based machine orchestration to schedule machines within user-specified bounds in external VPCs   (Go, PostgreSQL, AWS/GCP)
- Ported multi-node kops-deployed platform to a Terraform-deployable, single-instance Minikube deployment for on-premise deploys   (Terraform, Kustomize, NGINX)
- Deployed TLS-backed Docker registries with hand-rolled JWT-authentication to act as secure, access-controlled image caches   (Go, Docker, TLS)
- Maintained zero-downtime deployment pipeline   (Jenkins, Kubernetes, Bash)
- Primary engineer in client-facing calls, coordinated with sales team to provide technical expertise, platform onboarding, and context around user asks and custom implementations

Moat (Acq. Oracle)
New York, NY
Aug '16 — Aug '17

Senior Software Engineer
- Maintained and managed releases for real-time distributed data pipeline responsible for consuming and aggregating billions of ad impressions   (Python, Bash)
- Built task-based queueing system to aggregate and reconcile impression data from several subsidiaries of a parent company into a single view   (Python, AWS Lambda, SQL)
- Maintained recurring data export system   (Python, Celery, RabbitMQ)

Education

Rensselaer Polytechnic Institute '16   B.S. Comp. Science & Comp. Systems Engineering

Technical Skills

Languages — Go, Python, Bash, SQL, JavaScript, React/Redux, TypeScript, C++, Java
Tools — AWS/GCP, PostgreSQL, Kubernetes, Docker, Unix, Git, Terraform, Kustomize, Packer, Kafka, ElasticSearch (EFK), Jenkins, NGINX, OpenStack, Celery, EMR/Hive, FUSE