

Philip Kalinsky

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Profile

Dedicated Backend Software Engineer with a proven track record of developing innovative solutions to complex technical challenges using the Python Programming Language.

Demonstrated ability in managing complexity in designing and growing distributed systems, creating high-quality codebases with a focus on testability, maintainability, and scalability as well as collaborating with other engineers and cross-functional partners to create the best possible products that meet ambitious deadlines.

Technologies

Programming Languages: Python, Lua, C, SQL, Shell Scripting

Web Technologies, Libraries, Frameworks: Django, Flask, FastAPI, Tornado, RESTful APIs, Git, Server-Sent Events, Websockets, Real-time apps, Pydantic, Pandas, biopython

CI/CD, Infrastructure, Systems and Networking: SaltStack, Consul, Nginx, Kafka, Pushpin, Docker, Github Actions, ZeroMQ, uWSGI, pfSense, Proxmox, Grafana

Cloud Computing Platforms: Amazon Web Services, Google Cloud, RackSpace, Vultr

Databases: Postgresql, MySQL, sqlite, Redis, NoSQL

Operating Systems: Linux, FreeBSD, macOS

Experience

Senior Backend Web Developer / Team Lead, Mirimus Inc. – Brooklyn, New York Jan 2020 – June 2024

- Led the development of a custom Lab Information Management System (LIMS) using the Python programming language and Django framework supporting lab protocols for a high-volume (25,000 samples per day) COVID-19 PCR testing lab. <https://salivaclear.com>
- Develop and maintain APIs, microservices, and data pipelines to facilitate efficient data processing and analysis.
- Installed and maintained Pushpin reverse proxy installations in real-time app communication using Server-Sent Events HTTP streaming.
- Applied bioinformatics tools for large dataset analyses
- Provisioned and maintained a HIPAA-compliant cloud hosting environment.
- Implemented Django model field level encryption on patient health records related data.
- Utilized PostgreSQL schemas in implementing multi-tenancy application.
- Installed and maintained a Proxmox Virtual Environment cluster that allowed bioinformatics engineers to run workloads in LXC containers and KVM Virtual Machines.
- Configured and maintained multiple buildouts of the pfSense firewall across production and lower environments.
- Instrumented Prometheus exporters across various components in the stack.

Associate Director, IT, Planned Parenthood Federation of America – New York City Jan 2015 – Jan 2020

- Collaborated with other engineers, designers, product managers on a large Content Management System (CMS) as well as a location-based health center search that helped millions of people across the country receive medical care.

Backend Web Developer | Contract, Freelancers Union – New York City Apr 2014 – Jan 2015

- Was involved in building a member directory for a quarter million freelancers.
- Designed and implemented a web based system (Hives) allowing freelancers to interact by forming groups and posting content with commenting support.

Backend Web Developer | Contract, Engagement Game Lab at Emerson College – Oct 2010 – Apr 2014
Boston, Mass

- Built a web based multiplayer game for civic engagement using Python/Django. Community PlanIt
- Full multilingual support of static and database backed content.
- Automated demographic and activity data metrics reporting.
- Caching of nearly entire database backed content.

Software developer / Team Lead, Seesaw – New York City Nov 2008 – Oct 2010

- Lead developer on multiple Python/Django based customer-facing projects at a digital agency.

Education

University of Maryland, BS in Computer Science Sept 1995 – May 1999

Other

Languages: English, Russian

Employment Status: U.S. Citizen. Authorized to work for any US employer (no sponsorship required)