

Peter J. Li

I go by Pete, and I'm a Systems Software Engineer.

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EXPERIENCE

Akamai — Senior Software Engineer

DEC 2022 - PRESENT | Remote | Key Management Infrastructure

- Implemented multiple OAuth flows in core secrets management APIs to improve security posture
- Modernized a high-use CLI for distribution and REST API for self service, reducing our request burden on SREs by over 50%
- Created video demos to promote team offerings and recommended secrets management practices
- Enabled trusted workloads in Linode (new Compute platform) to access Akamai APIs via managed proxy

Akamai — Software Engineer II

JUL 2019 - DEC 2022 | Remote | Key Management Infrastructure

- Integrated our services with Azure and AWS IAM to standardize secrets handling in hybrid cloud development at Akamai
- Created and maintain general-purpose libraries that simplify both human and machine authentication to Azure and AWS
- Forked and productized OSS hashicorp/vault into a SaaS offering for the Akamai Private Cloud project, which reduced cloud spend by >\$10m in its first year in production

Akamai — Software Engineering Intern

JUN 2018 - AUG 2018 | Cambridge, MA | Key Management Infrastructure

- Shipped a highly-requested search bar feature for my team's web UI to production, built with Elasticsearch

PROJECTS

Buildings App

AUG 2023 - PRESENT | Self

- Actively using and developing a web app for my family's small Rental Property Management business (~60 units)
- Built in NextJS+Pocketbase, hosted at negligible cost on Linode
- SaaS ready!

P4_16 Portable Switch Architecture

JAN 2019 - JUN 2019 | P4 Language Consortium

- Made significant OSS contributions to the P4 compiler and bmv2 network switch simulator to support the new PSA specifications
- Led a team of 8 – we completed the project to the satisfaction of the P4 Architecture WG, and presented at ONF P4 Workshop 2019

LANGUAGES

Python | Go | Rust | JavaScript
SQL | C | C++ | OCaml | P4
Swift | Obj-C

INTEREST AREAS

Distributed Systems, Security,
Networks, Cloud Architecture,
Open Source, Programming
Languages, UX, DX, Teaching

TECHNOLOGIES

Linux | Git | Vim | Docker
Linode | Azure | AWS
Vault | Terraform
HTMX | React | Svelte

EDUCATION

Cornell University

Ithaca, NY | AUG 2018 - MAY 2019

M.Eng in Computer Science
CS Teaching & Research

Cornell University

Ithaca, NY | AUG 2014 - MAY 2018

B.S. in Computer Science
CS Teaching

HONORS

- Dean's List x4
- Excellence in teaching