

Kevin Nathanael Mingtarja

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Professional Experience

Dgraph Labs - Software Engineer Intern

Aug 2022 – Jul 2023

Palo Alto, United States

- Dgraph Labs is the company behind Dgraph, an open source, distributed graph database.
- Worked on the backend and infrastructure of Dgraph Cloud ([link](#)), a managed Database-as-a-Service built on top of Kubernetes, AWS, and a few services written in Go.
- Initiated and led the effort to codify our cloud infrastructure with Terraform and drove it to completion. This allowed the team to spin up staging environments quickly, which led to a sharp increase in engineering velocity.
- Designed and developed an autoscaler for our self-hosted CI/CD workers for Github Actions. Reduced AWS EC2 cost by ~87%, saving thousands of dollars per month ([link](#)).
- Managed hundreds of customer databases on Kubernetes, and performed ops/on-call duties including deployments, Kubernetes upgrades, writing automations, monitoring, and incident management. Achieved > 99.9% uptime over the past year.

Sea (NYSE: SE) - Backend Engineer Intern

May 2022 – Jul 2022

Singapore

- Developed a research paper search engine using Django, MySQL, and Elasticsearch for research scientists at Sea AI Labs (SAIL), which enabled them to search through hundreds of thousands of papers, receive curated lists, and subscribe to daily newsletters.
- Took the initiative to do frontend development, which resulted in quicker delivery of the project.
- In charge of the release process for the app, which includes writing pre-release checklists, schema migrations, and deployments.

Trustana - Software Engineer Intern

Dec 2021 – Jan 2022

Singapore

- Trustana is a cross-border trade and sourcing platform founded by Temasek.
- Spearheaded the effort to build a marketing site using React and integrated it with a CMS.
- Deployed the site using AWS S3 and Cloudfront as a CDN, which cost almost \$0 per month.
- Created the infrastructure-as-code for the deployment using Terraform.

ErudiFi (YC W18) - Frontend Engineer Intern

May 2021 – Aug 2021

Singapore

- ErudiFi is a Series A fintech startup focused on expanding access to financial services for students.
- Built the fourth major iteration of our mobile app from scratch using React Native and Typescript in less than two months with three other engineers. In doing so, we saw a 52.6% increase in conversion rate within three weeks of launching the update.
- Built and maintained our own UI components library to cut down development time significantly and used Storybook to document them.

Education

National University of Singapore - B. Comp (Honours) in Computer Science

Aug 2020 – May 2024

- GPA: 4.33/5.00

NUS Overseas Colleges (NOC) - Silicon Valley, Batch 42

Aug 2022 – Jul 2023

- A year-long overseas internship program by NUS where I worked in the San Francisco Bay Area with Dgraph Labs.

Projects & Open Source

stripe/pg-schema-diff ([link](#))

pg-schema-diff is a Go library and CLI for diffing Postgres schemas and generating SQL migrations. I wrote a new feature to visualize the SQL dependency graph by encoding the internal graph struct to DOT format, allowing it to be displayed by GraphViz.

SkillDeck ([link](#))

SkillDeck is a portfolio builder that three of my friends and I built. I did most of the frontend, and some parts of the backend. The frontend is written in Typescript and React, while the backend is in Node.js and Express.

P2ST ([link](#))

P2ST is an LLM app that utilizes ChatGPT to help students in the National University of Singapore (NUS) in their learning process. It was initiated by two NUS Computing professors in June 2023, and is now in the initial testing phase in two courses in NUS. I designed and wrote the backend with Django and PostgreSQL, managed the operations on a VM, and setup monitoring with Grafana.

Skills

Languages: Go, Python, Typescript, Javascript, Java, SQL, C

Technologies: Kubernetes, Docker, Terraform, Helm, gRPC, MySQL, PostgreSQL, Django, React, Nginx, Grafana, Prometheus, Loki