


# Dat Quach

 [dquach.dev](https://dquach.dev)

 [me@dquach.dev](mailto:me@dquach.dev)

 (778) 222-XXXX

 [datquach](https://www.linkedin.com/company/datquach)

 [quachtridat](https://github.com/quachtridat)

## Skills

Languages	Provisioning	Observability	Data	Protocol	CI/CD	SCM
Python	Ansible	Grafana	MySQL	REST API	GitHub Actions	Gerrit
Golang	Kubernetes	Prometheus	Redis	SSH	Zuul	GitHub
C++	Docker	InfluxDB	JSON	gRPC	Jenkins	Perforce

## Work Experience

### Software Engineer, Arista Networks

Aug 2022 – Present

*Engineer Productivity Team*

- Co-maintain a build store service with Swift backend and Varnish cache frontend, serving 40M requests daily.
- Maintain a CLI-based tool archiving software releases and retrieving archived releases from GCS.
- Developed a test generator providing 2x extra coverage on code that enables/disables features in EOS releases.
- Added Grafana dashboards and alerts for a Flask-based test generation service on Kubernetes, providing extra observability via exported Prometheus metrics.
- Provisioned two servers running the build store using Ansible, plus PXE and IPMI during booting time.

### Software Development Intern, EPIC Semiconductors

May – Jul 2021

*Website Development Team*

- Developed a frontend redesign to increase customer satisfaction using React, Next.js and TailwindCSS, significantly reducing the development workload and estimated project development time by 50%.
- Streamlined with MongoDB for backend, plus GitHub Actions for CI and CD to Vercel.

## Projects

### Ren, Open-Source Discord Bot

— Python, Pytest, Discord API, JSON, AWS EC2

Jul 2021 – Present

- Lead a major code structure change which eases testing and decouples main logic from Discord.py decorators.
- Maintain GitHub repos and resolve issues, resulting in high user satisfaction and functional improvements.
- Develop asynchronous chat functionalities using Discord.py API, enabling real-time user interactions.
- Deploy the bot on Amazon Web Services (AWS) EC2, which helps handle traffic with 99.9% uptime.
- Leverage GitHub Actions to streamline continuous integration, code testing, style checking and linting process.

### JupyterLab-Git, MLH Fellowship

— TypeScript, Jest, Python, Pytest, Jupyter, Agile

Feb 2022 – Apr 2022

- In a team of 2, developed caching mechanism for user credentials, greatly increasing user experience.
- Coded automated tests using Pytest for Python backend and Jest for React TypeScript frontend.
- Actively communicated with maintainer and team leader to propose and implement solutions in Agile sprints.

### FDU CampusHub, University Web LMS

— TypeScript, React, Next.js, TailwindCSS, Vercel

Mar 2021 – Apr 2021

- Led a team of 4 on a LMS frontend redesign project, scoring 94% in Human Computer Interface course.
- Conducted research and produced report to gain user experience insights.
- Streamlined with React, Next.js, TypeScript, ESLint and Vercel auto-deployment on GitHub for CI/CD.
- Bootstrapped the project with TailwindCSS for stylings, lowering 60% initial development workload.

## Education

### BSc. Information Technology, Fairleigh Dickinson University

Sep 2018 – May 2022

- Minor: Business Administration
- CGPA: 3.9/4
- Award: FDU Entrance Scholarship (GPA  $\geq$  3.0) 9 Terms
- Award: FDU Honors' List (GPA  $\geq$  3.5) 7 Terms

### Spring 2022 Open-Source Fellow, MLH Fellowship

Feb 2022 – Apr 2022