

Dat Quach

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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

- Developed a test generator providing 2x extra coverage on code that enables/disables features in EOS releases.
- Migrated build artifact storage backend from OpenStack Swift to PureStorage S3, serving 40M requests daily.
- Enhanced Docker dev container update mechanism with concurrency, bringing about 10x efficiency.
- Migrated a core Kubernetes service from Spinnaker to ArgoCD with Argo Rollout automated canary testing.
- Maintain multi-SCM CI codebase and services, including automated test plan suggesting and merge blocking.

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
- Award: FDU Entrance Scholarship (GPA ≥ 3.0) 9 Terms
- CGPA: 3.9/4
- Award: FDU Honors' List (GPA ≥ 3.5) 7 Terms

Spring 2022 Open-Source Fellow, MLH Fellowship

Feb 2022 – Apr 2022