

Eric Cheng

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Experience

• Microsoft Corporation

New York, NY

Product Manager, Infrastructure & Engineering Services

Aug 2022 – present

- Leading development of new internal infrastructure management platform for Microsoft Lab Services to manage over \$500m in data center devices.
- Worked directly with 5+ engineering teams to drive project from kick-off to launch in under three months.
- Designed user interface flows using Figma, contributed heavily to product look and feel.

Software Engineer Intern, Azure Storage Engineering

May 2021 – Aug 2021

- Wrote Ansible playbooks to deploy and connect Azure Database for MySQL & MariaDB to the Azure Managed Lustre supercomputer filesystem, eliminating engineering overhead of maintaining an on-premise database.
- Developed benchmarking tools to stress test Lustre throughput, latency, and IOPS across dozens of virtual machine and database configurations.

• Amazon.com

Seattle, WA

Software Development Engineer Intern, Brand Protection

Jul 2020 – Sep 2020

- Built new counterfeit monitoring dashboard experience for Fortune 500 customers in React and Spring.
- Rewrote my team's interface to DynamoDB to handle large high-frequency queries, reducing round-trip latency by 15%.

• CoPilot

San Francisco, CA

Product Engineer Intern

May 2019 – Aug 2019

- Built dashboards in React and MongoDB to track real-time global user metrics.
- Built user sign-up and authentication process with OAuth 2.0 and Firebase SDK.
- Implemented fitness trainer-trainee messaging feature with Pusher Chatkit.

• Fastplate

Pittsburgh, PA

Co-founder

Nov 2018 – May 2021

- Created a online ordering and food delivery service for college campuses.
- Met with 100+ students; pitched product in university competitions; determined MVP requirements; defined go-to-market strategy; delivered sandwiches to happy customers.
- Developed route caching algorithm, reducing 60% of delivery times to ≤ 15 minutes.

Education

• Carnegie Mellon University

Pittsburgh, PA

Bachelor of Science in Business Administration

Aug 2018 – May 2022

- **Coursework:** Economics, finance, computer science, machine learning, probability, philosophy
- **Extracurriculars:** President of the [CMU Business Technology Group](#), independent study on Web3 risks and security threats, speaker at TEDxCMU, won/mentored various university hackathons, cmueats.com

Selected Projects (see more at chengeric.com/projects)

• Chenglab

My living room

Home server hobbyist project

Mar 2020 – present

- Managing a personal fleet of NixOS and Arch Linux servers to provide self-hosted cloud storage, media streaming, home automation, and distributed computing services for family and friends.
- Researching and continuously applying DevOps best practices using containerization, Nix flakes, Ansible, Cloudflare Tunnels, Tailscale VPN, and other fun technologies I find interesting.
- Implemented an [automated 3-2-1 backup system](#) to encrypt and store sensitive data on Azure Blob Storage.

Skills

- **Languages:** Python, JavaScript, TypeScript, Go, Dart, \LaTeX , Nix, HTML, CSS, R, Java, Bash, Mandarin Chinese
- **Tools and technologies:** AWS, Azure, Ansible, Docker, Figma, Git, Linux, MongoDB, MySQL, PostgreSQL, ServiceNow
- **Interests:** Open source software, homelabs, startups, privacy, design, opsec, cryptography, [index investing](#)