# Amrut Prabhu

Currently based in Singapore

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## Experience\_

Shopee (Sea Ltd.)
Singapore

SENIOR SOFTWARE ENGINEER

Jan 2022- present

SOFTWARE ENGINEER

Jun 2020 - Dec 2021

- Upgrading the company's core service mesh platform, as part of the Application Infrastructure division.
- Overseeing the rebuild of the data plane component of the service mesh.
- Increased throughput by 10% and reduced latency by up to 50% by investigating and optimizing performance bottlenecks.
- Designed and implemented end-to-end fault tolerance features like circuit breaker, chaos injection and rate limiter.
- Developed advanced rate limiting features like distributed rate limiter, support for bursty traffic, and rate limiting by request priority.
- · Increased test coverage for HTTP APIs by 40% by constructing a portable e2e test environment to improve system stability.
- Tech stack: Golang, MySQL, Protobuf, Bash, Python, Grafana, Prometheus, Linux

Shopee (Sea Ltd.)
Singapore

SOFTWARE ENGINEER INTERN May 2019 - Aug 2019

- Worked as a Mobile Engineer (React Native) in the App team.
- Reduced the loading time of the product review images panel by over 50% by overhauling the technology behind it to React Native.
- Accelerated the creation of navigation routes for operators and developers by designing a web application using React & Redux.
- Tech stack: React Native, React JS, Redux, Flow, Node.js, Jest, GitLab CI

Works Applications Singapore

SOFTWARE ENGINEER INTERN

May 2018 - Aug 2018

- Upgraded the internal framework that is used to expedite development of customized enterprise (ERP) software.
- Enhanced the import feature by supporting a new data format and improved performance by using batch CRUD operations.
- Automated deployment of the microservice application to be a single step process using Jenkins, Docker and Bash script.
- Tech stack: Java, JavaScript, Jenkins, Nginx, Docker, LESS

#### Skills

**Proficient** Go / Golang, Java, JavaScript, Git

Familiar Python, MySQL, Prometheus, Grafana, Bash, React JS, HTML, CSS, SCSS

**Prior Experience** Node.js, C++, React Native, Nginx, Docker, R

## **Education**

### **National University of Singapore**

Singapore

BACHELOR OF COMPUTING (HONORS) IN COMPUTER SCIENCE

Aug 2016 - Jun 2020

Jan 2022 - present

- GPA: 4.73 / 5 or 3.78 / 4 (Highest Distinction, Dean's List)
- Relevant Courses Taken: Software Engineering, Parallel and Distributed Algorithms, Parallel Computing, Data Structures and Algorithms
- Teaching Assistant: Software Engineering, Data Structures and Algorithms, Machine Learning

## **Projects**

# The Streamer Awards THESTREAMERAWARDS.COM

Golang, React JS, JavaScript, MySQL, Prometheus, Linux, Nginx

• Managed and developed the website, voting system and fantasy pick'em contest for an awards show.

their contest for all awards show.

- Designed a scalable and resilient system to handle a peak of **6,300 concurrent users** and **submissions from 300,000 users**.
- Optimized resource usage and reduced latency by designing suitable data structures, caching at multiple levels, and using a CDN.

• Integrated with Google Auth and added rate limits by IP address to prevent spam votes and deter malicious users.

## TwitchCamp

TWITCHCAMP.GITHUB.IO

Golang, React JS, JavaScript, Twitch API

Sep 2021

- Recognized the need for, and conceived a website for TwitchCamp- an event organized by popular live-streamers.
- Publicized the website to get 190,000 unique users, 850,000 page visits and a peak of **4,000 concurrent users**.
- Integrated the application with Twitch API to fetch the latest data.
- Reduced latency by making concurrent API calls, and adhered to Twitch rate limits by caching results.

#### TEAMMATES

Java, Angular, TypeScript, JMeter

### TEAMMATESV4.APPSPOT.COM

- TEAMMATES is an open source feedback platform that has over 350,000 users.
- Architected and led a team of 3 to develop an automated Load & Performance testing framework using the JMeter Java API.
- Developed a feature to regenerate the unique links to a user's feedback pages.