

David Choo

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Skills

Languages	Golang, Python, Typescript, bash, Java, C++, C#
Frameworks	Gin, React, Express, Vue
Databases	MySQL, Redis, Firebase, MongoDB, Postgres, MSSQL
Monitoring	Grafana, Prometheus
Platforms	Ubuntu, Docker, Kubernetes, AWS

Experience

Shopee Singapore | SENIOR SITE RELIABILITY ENGINEER

May 2021 - Present

- Project driver for an internal platform used for incident alerting and resolution, written in Golang with Gin framework.
 - Equivalent to doing development, product and project management.
- Independently delivered backend features for internal platforms through design, planning, implementation, testing, maintenance.
- Contributed to the development, maintenance and support of several internal platforms including resource capacity planner, autoscaler, stress tester, disaster recovery controller.
- Weekly rotational on duty support for users of our platforms.
- Dedicated SRE assigned to multiple dev teams, in charge of investigating and solving various issues reported by devs.
- Monthly campaign preparation and midnight standby for traffic spikes.
- Conducted technical interviews for recruitment.

Zendesk Singapore | DEVOPS ENGINEER INTERN

Jan 2020 - Jul 2020

- Bash scripted a packaging workflow as part of the plan to autoscale edge region EC2 servers.
- Implemented a Slack bot that gathers relevant information for finding out what happened during an incident.
- Rolling restarted production servers as part of security patching exercise.

UX Consulting | DEVELOPER INTERN

Oct 2016 - Feb 2017

- Experimented with MEAN (Mongo, Express, Angular, Node) stack to implement a prototype internal website for calendar booking.

Education

National University of Singapore | UNDERGRADUATE - BACHELOR OF COMPUTING IN INFORMATION SYSTEMS

Aug 2017 - Jan 2021

- CAP - 4.15 out of 5.
- Lead a team of 5 for a software engineering module. Discovered and reported a confirmed bug in JavaFX after a week of debugging.
- Patched and compiled synaptic touchpad driver for Ubuntu to fix an annoying 2 finger scroll behaviour.

Singapore Polytechnic | DIPLOMA IN INFORMATION TECHNOLOGY

Apr 2014 - May 2017

- GPA - 3.84 out of 4.
- Received Director's Roll during my first year of study awarded to top 10% of cohort.
- Final Year Project won SiTF and Microsoft Imagine Cup awards.

Projects

Reaction Platform | SHOPEE INTERNAL PROJECT

May 2024 - Present

- Web platform for configuring alert response execution, mostly used by Shopee Network Operation Center for alert escalation.
- Assigned as project driver to continue development/maintenance.
- Implemented automated termination of containers with anomalous high cpu and onboarded services that had imbalance cpu issues.

NUSWhispers Analysis | [HTTPS://DAVIDCHOO12.GITHUB.IO/NUSWHISPERS-ANALYSIS/](https://davidchoo12.github.io/nuswhispers-analysis/)

Jan 2021 - Jan 2023

- Solo hackathon project which I polished to completion. I am proud of the UI.
- Daily scraping of NUSWhispers facebook posts for fresh data.
- Analyzed posts data with pandas for stats, sklearn TF-IDF for topic modeling, and post network analysis.
- Developed responsive web frontend with React and Tailwind.

Listent - Short-form Audio Social Media App | [HTTPS://GITHUB.COM/CS3216-LISTENT/LISTENT-APP](https://github.com/CS3216-listent/listent-app)

Oct 2020 - Nov 2020

- Final Project for CS3216 (Software Product Engineering) where teams of 4 students work like a startup.
- Setup infrastructure on AWS EC2, S3, MongoDB Atlas.
- Setup continuous deployment using Github Actions and Ansible with multistage environments.

Awards

2020	Most Entertaining Hack , Hack&Roll 2020 hackathon	Singapore
2018	Top 8 Winner (in no particular order, out of 105) , Hack&Roll 2018 hackathon	Singapore
2016	National Champion , Microsoft Imagine Cup National Final - Innovation Category	Singapore