

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

- 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.
- Russia's Losses** | [HTTPS://RUSSIASLOSSES.NETLIFY.APP/](https://russiaslosses.netlify.app/) Mar 2022
- Data visualization project done in 1 week. Daily scraping of KyivIndependent's "Russia's losses" images and text extraction using Tesseract.
- 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.
 - Assisted in creating marketing assets to advertise the app.

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