David Choo

(+65) 8768 5377 | davidchoo16@gmail.com | davidchoo.netlify.app | davidchoo12 | davidchoo12

Skills

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

Experience

Shopee Singapore | MARKETPLACE SITE RELIABILITY ENGINEER _May 2021 - Present_
- Contributed to the development, maintenance and support of 9 internal platforms.
- Individually owned features for the platforms through design, planning, implementation, testing, maintenance.
- Monthly campaign preparation and midnight standby for traffic spikes.
- Weekly rotational on duty support for users of our platforms.
- Investigated and solved various issues reported by devs.
- Conducted datacenter migration operations for services under my scope of support.

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, working with a 10KLoC codebase.

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.

Projects

NUSWhispers Analysis | HTTPS://NUSWHISPERS.FYI/ _Jan 2021 - Jan 2023_
- Hackathon project which I polished to completion.
- 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/ _Mar 2022_
- 1 week project to visualize Russia's military lossses over time in the Ukraine war.
- Daily scraping of KyivIndependent's "Russia's losses" images and text extraction using Tesseract.

LisTent - Short-form Audio Social Media App | DEVOPS GUY _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.

Nyx - Artificial Intelligence | FRONTEND DEVELOPER _Apr 2016 - Aug 2016_
- Final Year Project which won SiTF and Microsoft Imagine Cup awards.
- Designed and developed a web chat UI, taking inspiration from Telegram and WhatsApp Web.
- Researched and integrated Firebase realtime database for the chat UI.

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_