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 one of our internal platforms used for incident alerting and resolution.
  - Equivalent to doing product and project management in addition to development.
- Mentoring a new member of the team by teaching company specific knowledge and imparting technical skills.
- Conducted technical interviews for recruitment.
- Contributed to the development, maintenance and support of 9 internal platforms.
- Individually created 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.
- Dedicated SRE assigned to multiple dev teams, in charge of investigating and solving 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. 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://nuswhispers.fyi/   *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/   *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   *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*