

TOM NGUYEN

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EXPERIENCE

SENIOR SOFTWARE ENGINEER - RELEVANCE AI NOV 2024 - PRESENT

SOFTWARE DEV ENGINEER II - AMAZON WEB SERVICES APR 2023 - NOV 2024

- Lead a team of engineers in order to automatically configure and deploy the team's services to new regions, saving at least 2 engineer weeks of manual effort per region.
- Re-architected a critical service which vends configuration to downstream deployment services in order to make it more resilient to outages. Converted the single-region data plane to a multi-regional setup with zero downtime.
- Improved the performance of services through profiling and optimising hot paths in the codebase and removing unnecessary logging, which allowed for a fleet size reduction of 30% and savings of over \$1MM a year.
- Mentored an intern on the team. Responsibilities included scoping and designing the project, onboarding the intern onto the codebase and providing continuous guidance and feedback throughout the internship.

SOFTWARE DEV ENGINEER I - AMAZON WEB SERVICES APR 2021 - APR 2023

SOFTWARE DEV ENGINEER INTERN - AMAZON WEB SERVICES DEC 2020 - FEB 2021

VOLUNTEER EXPERIENCE

INFRASTRUCTURE LEAD/SYSADMIN - DOWNUNDERCTF JULY 2020 - PRESENT

- Developed a challenge hosting platform for the CTF which runs hundreds of challenge containers in complete isolation with abuse monitoring, built on top of Kubernetes.
- Built a service which enables players to start challenge instances on-demand, with sufficient rate-limiting and throttling measures.
- Developed techniques to scale the CTF scoreboard to support >1000TPS across thousands of players.

TECHNICAL SKILLS

- Languages: Java, Python, JavaScript, Go, Ruby
- Frameworks: Flask, React, Express, Spring Boot
- Databases: PostgreSQL, MySQL, MongoDB, Redis, DynamoDB
- Misc: Linux, Bash scripting, Docker, \LaTeX
- Cloud: AWS, Google Cloud Platform, Kubernetes

EDUCATION

UNIVERSITY OF NEW SOUTH WALES 2018-2020

Bachelor Of Science (Computer Science) with Distinction

Academic tutor for:

- COMP2041 - Software Construction
- COMP1521 - Computer Systems Fundamentals