

DANIEL KANG

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TECHNICAL SKILLS

Languages: Java, Python, C/C#, SQL (MySQL, Postgres), JavaScript, TypeScript, HTML/CSS, PHP, Swift, Kotlin
Frameworks: Next.js, Express.js, Node.js, JUnit, Pytest, MaterialUI, Bootstrap, Pyshark, THREE.js, Discord.js, TailwindCSS
Developer Tools: Git, Docker, AWS, VSCode, JetBrains, Android Studio, Wireshark, Ansible, MongoDB, Azure, Maven, Gradle
Libraries: React, Pandas, NumPy, Matplotlib, OpenCV, Scikit, Selenium, AOS, Nimbus, Lodash

EXPERIENCE

Software Development Engineer L4

Sep 2024 – Present

Amazon Web Services - AWS Identity

Toronto, ON

- Lead modules of changes of an org-wide architectural reformation project, increasing scalability of services by more than 70% through factorizing classes, while reducing cost by \$250,000+ USD yearly.
- Developed an one-click script to enable service extension policies for multiple products the organization owns, saving 100+ developer-hours per month.
- Extended the current AWS Identity Center experience for customers by implementing highly secure authorization strategies, improving the previous OIDC federation flow in latency by 25% while addressing security concerns.
- Perform on-call duties, quickly analyzing and root-causing high-severity alarms and requests to stabilize the team's services to upkeep the highest standards and availability.

Software Development Engineer Intern

May 2023 – Aug 2023

Amazon Web Services

Toronto, ON

- Led an AWS production project focused on secure authorization and authentication of key customers at Amazon.
- Designed a highly efficient system flow decreasing latency by 70% and cost per API invocation by 2000%.
- Automated robust CI/CD by building custom pipelines to unit, load, and integration test the code with 100% coverage.
- Engineered a high-standard software with regionalized efficiency and 99.9999% availability with complete security.
- Presented the project to the wider organization to gather key customers, boosting dependency engagement by 150%.

Software Engineering Intern

May 2022 – Dec 2022

Department of National Defence Canada

Halifax, NS

- Led the development of an API allowlisting data in MAC auth systems to secure student development platforms.
- Modernized a full stack application used to authenticate incoming packets with loads up to 120 packets per minute.
- Led the engineering of an artificial intelligence network firewall using Python and Scikit to flag malicious packets.
- Displayed ownership of the applications by documenting the high-level and low-level design document for the future.

PROJECTS

Goldberg | *AWS RDS, AWS EC2, Discord.py, Selenium, Tampermonkey*

Dec 2024 – Present

- Academic discord bot used by 2000+ students to modernize course information provider experience.

Intern Report | *React, Node.js, Express.js, AWS (API Gateway, Lambda, Amplify, SES, ...)*

Jul 2022 – Sep 2024

- Leading the development of a public crowdsourced aggregate information about internships.

Mouseless | *Python, Pandas, OpenCV, Git*

Jun 2022 – May 2023

- Leading the development of a machine learning cursor peripheral that tracks eye movements.

Don't Touch It! | *C#, Blender, Unity*

Feb 2022 – March 2022

- Collaborated in the development of a game that tests human curiosity.

EDUCATION

Dalhousie University

Halifax, NS

Bachelor of Computer Science (GPA: 3.8 / 4.3)

Sep 2020 – May 2024

AWARDS

Schulich Leader Scholarship: Prestigious scholarship given to the top 100 students of Canada worth \$100,000 - \$120,000