# Taeuk Kang

Computer Engineering Student at the University of Toronto

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## SKILLS

**Languages:** Python, Go, C++, Java, Javascript, Typescript, HTML, CSS, SQL

**Tools/Frameworks:** Django, React.js, Redux, MongoDB, Kafka, PostgreSQL, Prometheus, Graphite, gRPC

## EXPERIENCE

**Amazon** - **Software Engineer Intern** *May 2023 - Aug. 2023*

- Worked on the Amazon Alexa mobile app team focusing on Home Productivity pages.
- Designed and implemented an integration of time-based Reminders into the Alexa Calendar page, by querying existing Redux stores and creating new components to display Calendar events and reminders in-line and sorted by time.
- Technologies used: **React Native, Redux , Typescript, Node.js**

**Coinbase** - **Software Engineer Intern** *May 2022 - Sept. 2022*

- Worked on the Infrastructure Security team developing IAM tooling.
- Developed a **gRPC** API using **Golang** to calculate the ratio of employees with CAF (Can-Access-Funds) permissions for any given team, using employee access data queried from LDAP.
- Reduced CAF access tickets review time from 2 hours to less than 5 min/ticket, **saving over 20hr/month** for security reviewers.
- Created a cron job to send out a monthly CAF stats email report to provide better insight into privileged access across the company.
- Technologies used: **Golang, Protobuf, gRPC, AWS**

**Electronic Arts** - **Software Engineer Intern** *Sep. 2021 - Dec. 2021*

- Reduced the availability metric query time by 40%, by developing a **Golang** app that automatically aggregates KPI metrics for all EA game titles and stores them inside a **Prometheus** time-series database.
- Visualized availability metrics in a **Grafana** dashboard with dynamic templating to allow developers to modify the calculation weights.
- Saved 5hr/week for the Director of Engineering by automating the availability calculation/monitoring process

**IBM** - **Software Engineer Intern** *May 2021 - Aug. 2021*

- Reduced average customer database setup time by 25% for IBM Change Data Capture, by implementing a persistent subscription handler to recognize returning clients with pre-existing database subscriptions.
- Utilized **Kubernetes/Terraform** to automate operation processes for IBM CDC Cloud.
- Developed a custom processing operator using **Java** to replicate/log database changes in real-time, and deliver to **Apache Kafka** event stream target.

## EDUCATION

**University of Toronto** *Sep. 2019 - May. 2024*

*Bachelor of Computer Engineering*

- Pursuing a Bachelor of Computer Engineering with a minor in Artificial Intelligence.
- Relevant Courses: Object-Oriented Programming**,** Software Engineering, Data Structures and Algorithms, Operating Systems, Database Design.

## PROJECTS

**TourEasy Map** - *github.com/taeukkang09/ECE297-TourEasy*

Developed a map application for different cities around the world, implementing A* pathfinding and traveling salesman algorithm to find optimal paths between multiple points, using **C++, OSM Database,** and **GTK.**