

# David Kang

A.K.A. SEUNG GYU KANG

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## Skills

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**Languages** Python, C++, Java, JavaScript, Ruby, Dart, SQL

**Libraries/Tools** Thrift, Ruby on Rails, React/Redux, Docker, AWS, Kafka, Node, Django, Git

## Experience

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### Meta | Software Engineer

August 2021 - November 2022

- Stream Processing team working on high-scale, real-time distributed data pipelines
- Implemented privacy features (e.g. 1st/3rd party user data filtering) as well as operator features and optimizations (windowed aggregations, lookup joins) for stream processing engine in **Python** and **C++**
- Implemented E2E correctness testing framework and performance analysis tools for query planner

### Facebook | Software Engineering Intern

August 2020 - December 2020

- Implemented highly configurable diversification algorithm for search results in **C++**
- Performed A/B experiments to determine best parameters for new diversity framework
- Migrated internal policy framework to declarative language system, enabling complex/dynamic rules

### Drop | Software Engineering Intern

January 2020 - June 2020

- Overhauled user referral system, enabling flexible multi-million user experiments and campaigns
- Scoped and implemented several internal/external features on a **React Native/Ruby on Rails** app
- Explored multi-tiered caching strategies using **Redis** and **NGINX** to significantly improve API performance by ~80% and reduce server load, monitored for peak consistency

### Google | Software Engineering Intern

May 2019 - August 2019

- Designed and implemented a distributed data pipeline framework in **C++** to process over **5 million** ads
- Updated and added concurrent issue detection tools in **Java** for optimized data reporting
- Implemented monitoring tools in **Angular/Dart** for detected issues to provide insights on ROI trends

### ConsenSys | Full Stack Software Developer Intern

September 2018 - December 2018

- Provisioned staging and automated integration testing environments using **Docker** and **CircleCI**
- Added critical features in **Node/Express** for data stored in a hybrid **MongoDB/Neo4j** architecture
- Implemented complex data-driven navigation UI using **React/Redux + D3**

### StackAdapt | Full Stack Software Developer Intern

January 2018 - April 2018

- Added complex data visualization UI with **React/Redux** and **amCharts** for major product update
- Optimized many areas of **Ruby on Rails/MySQL** API, reducing load times on reporting tools by **90%**

### Genesys | Software Engineering Intern

May 2017 - August 2017

- Implemented major accessibility UX features such as keyboard navigation and dynamic tagging
- Contributed significantly to new in-house UI component library written in **React/Redux**

## Education

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### University of Waterloo

September 2016 - June 2021

- Bachelor of Software Engineering with Distinction, 6 × Dean's Honour List
- 91% Cumulative Average / 3.92 GPA, Sanford Fleming Foundation Scholarships

### Nanyang Technological University (Exchange Studies)

August 2019 - December 2019