

David Kang

A.K.A. SEUNG GYU KANG | 3B SOFTWARE ENGINEERING

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Skills

Languages Java, C++, JavaScript (ES6/TypeScript), Python, Dart, Ruby, SQL
Libraries/Tools React, Redux, MongoDB, Node, Express, Angular, Django, Webpack, Git, Docker

Experience

Google | Software Engineering Intern May 2019 - August 2019

- Scoped out and implemented extensible data analysis pipeline to pre-compute long-tail stats distributions in **C++**
- Updated and added concurrent issue detection tools in **Java** for optimized processing of distributions
- Implemented card-based UI in **Angular/Dart** for detected issues to provide insights on ROI trends

ConsenSys | Full Stack Software Developer Intern September 2018 - December 2018

- Containerized environments and set up automated integration testing with **Docker** and **CircleCI**
- Added multiple critical operations in **Node/Express** for data objects stored in a hybrid **MongoDB/Neo4j** store
- Implemented complex data-driven UI as part of navigation redesign using **React/Redux + D3** for visualization

StackAdapt | Full Stack Software Developer Intern January 2018 - April 2018

- Implemented complex UI with **React/Redux** and **amCharts** for data visualization for major product update
- Updated and optimized many parts of application's API on **Ruby on Rails** as part of V2 efforts
- Optimized several operations and **MySQL** queries, reducing load times on reporting tools from ~1.5 min to ~10 s

Genesys | Frontend Engineering Intern May 2017 - August 2017

- Spearheaded design and implementation of new in-house component library in **React/TypeScript**
- Formulated and added accessibility features and automated test suite for dashboard in **Java** using **Selenium**

Projects

Neural Network Project (Name TBD) Personal Project

- Implemented a ground-up neural network in **C++** based on **NEAT** and **LSTM** architectures for sequential training
- RPC server/client for cross-platform training and 8-bit music generative adversarial network in progress

That One Big Story HackMIT

- Built a web application/platform for users to create branches off of each others' stories/chapters
- Written in **AngularJS** and **Firebase**, currently refactoring/updating in **React** and **Django** with **PostgreSQL**

Awards

Waterloo Engineering Competition, Programming Division 2nd Place 2017

Various Mathematics Contests 2015 - 2017

- Euclid Math Contest Top 1% | CIMC 1st Place | Harvard/MIT Math Tournament Top 3%

Activities & Interests

UW A Cappella | Music Director of The Water Boys, International Championship of Collegiate A Cappella Finalists

Hack the North | Hackathon event and Frontend Developer Volunteer

Education

University of Waterloo 2016 - 2021 (Expected)

Candidate for Bachelor of Software Engineering | 91% Cumulative Average | Dean's Honor List (2016 - Current)