

Andy Baek

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PROGRAMMING

Languages

Java • Python • JavaScript • C++

Web

React • Redux • Enzyme • Angular

Mobile

Android • React Native

Infrastructure

Samza • Kafka • RocksDB • HDFS
Spark • MySQL • Chef • AWS

Machine Learning

Aerosolve • Scikit-Learn

EDUCATION

UNIVERSITY OF WATERLOO

COMPUTER SCIENCE WITH

SOFTWARE ENGINEERING OPTION

Graduating in April 2018

Cumulative Avg: 89.3%

LINKS

<https://abaek.github.io>

<https://github.com/abaek>

<https://linkedin.com/in/abaek>

EXPERIENCE

AIRBNB | FRONT END ENGINEERING INTERN

May – August 2016 | San Francisco, CA | Pricing Team

- Built a web service to manage the Aerosolve machine learning pipeline using React, Redux and Node for the web service and MySQL and S3 for data storage
- Modified Aerosolve source code in Scala to output result metrics to HDFS
- Refactored the host-facing router on airbnb.com to use React and Redux

LINKEDIN | ML INFRASTRUCTURE ENGINEERING INTERN

January – April 2016 | Sunnyvale, CA | Ranking Infrastructure team

- Created a distributed personalized online learning system in Samza
- The system processed training events through a kafka stream and updated personalized coefficients in near real time
- Integrated Samza's RocksDB cache into LinkedIn's machine learning infrastructure to store coefficients between training iterations
- Tuned online learning parameters and analyzed performance metrics

SQUARE | ANDROID ENGINEERING INTERN

January – April 2015 | San Francisco, CA | Android Register Team

- Shipped Cash Management on Square's Android Register app
- Implemented drag and drop RecyclerViews that loaded data from cursors
- Used Dagger, Mortar and Flow to manage dependencies throughout screens
- Created SQLite tables and an API to store and transfer protobuf states between the device and the server

DBRS | FULL STACK ENGINEERING INTERN

May – August 2014 | Toronto, ON

- Created a rules engine using python scripts to clean data files and store them using the MongoDB C# driver
- Improved efficiency of data loading by creating custom services in AngularJS to make asynchronous HTTP requests to C# controllers to query data

PROJECTS

CARDBOARD TRANSLATE | HACK THE NORTH

github.com/angelgao/HTN2015

Cardboard app using Google Translate API to translate text you see from your camera using Myo gestures. Image-to-text recognition done through Tesseract OCR.

WESPORTS | BATTLEHACK TORONTO

github.com/abaek/we-sports

Android app using the Material theme and Google Place Picker. Stored user data on Parse to send push notifications based on location and event preferences.

MYRATINGS | HACK THE NORTH

myratingz.herokuapp.com

Ratings website built using the MEAN stack and Compose server. Implemented http endpoints for rating and querying items. Used ChartJS to display results.

SMARTCHAT | GENESYS HACKATHON

smartchat.rhlcy.com

Real-time chat website using SocketIO and NodeJS. Implemented a trie to create a sentence prediction algorithm based on previous messages.