

Andy Baek

PROGRAMMING

LANGUAGES

Proficient In:

Python • Java • C++

Experience With:

AngularJS • NodeJS • Dagger • SQL

MongoDB • Parse • Git • SocketIO

ALGORITHMS

Strong interest in algorithm analysis by solving problems on ProjectEuler, HackerRank and Codility

Knowledgeable About:

Dynamic Programming, Graph Theory, Data Structures, Sorting and Searching

EDUCATION

UNIVERSITY OF WATERLOO

COMPUTER SCIENCE WITH

SOFTWARE ENGINEERING OPTION

Graduating in April 2018

Cumulative Avg: 92.5%

LINKS

<https://abaek.github.io>

<https://github.com/abaek>

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

EXPERIENCE

SQUARE | ANDROID ENGINEER, CO-OP

January – April 2015 | San Francisco, CA

- Shipped features and contributed to designs 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 local device data and server data
- Wrote unit tests with RoboElectric to verify screen and view behaviour

DBRS | FULL STACK SOFTWARE ENGINEER, CO-OP

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
- Developed a taskbar widget to schedule tasks in RabbitMQ

FENIX SOLUTIONS | WEB DEVELOPER, INTERN

July – August 2013 | Ottawa, ON

- Used geocoding in Google Maps API to prototype Giant Tiger's store locator
- Created Giant Tiger's 50th Anniversary webpage from scratch using JQuery

PROJECTS

MYRATINGS | HACK THE NORTH

myratingz.herokuapp.com

Ratings website built using the MEAN stack. Able to rate and leave comments for movies, restaurants, games and books using the Compose MongoDB server.

SMARTCHAT | GENESYS HACKATHON

smartchat.rhlcyc.com

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

NBA PLAYOFF BRACKET | TREEHACKS

github.com/abaek/NBAPlayoffBracket

Competition style website in progress using Materialize Framework and Angular. Allows friends to compete and guess the outcome of the NBA playoffs.

OFFICE HOURS | MHACKS

github.com/office-hours

Aggregate Q&A platform by scraping StackOverflow, Facebook and Twitter API. Led front-end development using AngularJS and Firebase to store and display questions.

CARPAL | BATTLEHACK

github.com/abaek/Carpal

Android app for organizing carpools; pitched to Metrolinx transit company. Created advanced filters to determine ideal match for cost, driver experience and routes.

PEBBLE 2048 | HACK-WATERLOO

github.com/abaek/Pebble2048

Adaptation of 2048 on the Pebble smartwatch; released to the Pebble App Store. Implemented Pebble-to-Android communication and integrated accelerometer.