

Andy Baek

Computer Science | University of Waterloo | abaek@uwaterloo.ca

SKILLS

PROGRAMMING

Proficient In:

Python • C# • JavaScript

Frameworks:

AngularJS • MVC • EF

Experience With:

C • SQL • Git • MongoDB • NodeJS

ALGORITHMS

Strong interest in algorithm analysis by solving problems on ProjectEuler, HackerRank and Codility
(See: github.com/abaek/Algorithms)

Knowledgeable About:

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

EDUCATION

UNIVERSITY OF WATERLOO

CANDIDATE FOR BACHELORS OF
COMPUTER SCIENCE WITH
SOFTWARE ENGINEERING OPTION
Expected 2018 | Waterloo, ON
Cum. Avg: 92.5%

LINKS

<https://abaek.github.io>

<https://github.com/abaek>

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

EXPERIENCE

DBRS | SOFTWARE ENGINEERING CO-OP

April – August 2014 | Toronto, ON

- Created a rules engine using python scripts to clean data files and store them using the MongoDB C# driver
- Developed MVC applications that used Entity Framework to import and query metric data from multiple data feeds in SQL
- Created a taskbar widget to schedule tasks in RabbitMQ and make real-time updates for when a task was queued, in progress and finished
- Improved efficiency of data loading by creating custom services in AngularJS to make asynchronous HTTP requests to C# controllers to query data
- Developed a report generator web application in AngularJS where editors could input text and instantly preview a publishable version of their report

FENIX SOLUTIONS | WEB DEVELOPMENT INTERN

July – August 2013 | Ottawa, ON

- Used geocoding in Google Maps API to create a prototype of Giant Tiger's store locator: <http://community.gianttiger.com/store-locator>
- Developed an admin login using PHP sessions to approve customer comments
- Implemented a string parsing algorithm to flag inappropriate user comments
- Created Giant Tiger's 50th Anniversary webpage from scratch using JQuery to display a pagination bar with customer image uploads

PROJECTS

MYRATINGS | HACK THE NORTH

September 2014 | Waterloo, ON | 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.

OFFICE HOURS | MHACKS

September 2014 | Ann Arbor, MI | 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.

SMARTCHAT | GENESYS HACKATHON

July 2014 | Toronto, ON | smartchat.rhlc.com

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

CARPAL | BATTLEHACK

June 2014 | Toronto, ON | 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

April 2014 | Waterloo, ON | 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.