

Andy Baek

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SKILLS

PROGRAMMING

Proficient In:

Python • C# • JavaScript

Frameworks:

AngularJS • MVC • EF

Experience With:

MongoDB • SQL • C • Android

Problem-Solving:

Strong interest in algorithm analysis by solving problems on projecteuler.net, hackerrank.com and codility.com

(See: github.com/abaek/Project-Euler)

Knowledgeable About:

Dynamic Programming • Tree Traversals • Sorting and Searching Algorithms

EDUCATION

UNIVERSITY OF WATERLOO

CANDIDATE FOR BACHELORS OF
COMPUTER SCIENCE

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

- Worked on an agile engineering team to develop software applications for business clients
- Created a rules engine with 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
- Added functionality to schedule tasks in RabbitMQ from a webpage and created a taskbar widget to 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 styled and 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 an authentication framework with PHP sessions to approve customer comments
- Created Giant Tiger's 50th Anniversary webpage from scratch using JQuery to display a pagination bar with customer image uploads
- Created a filtering algorithm that queried user comments in SQL

PROJECTS

SMARTCHAT | GENESYS HACKATHON

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

Developed a real-time chat site using Socket.IO written in AngularJS. Created a machine learning sentence prediction algorithm using a trie in JavaScript.

CARPAL | BATTLEHACK

June 2014 | Toronto, ON | github.com/abaek/Carpal

Android application for organizing carpools pitched to Metrolinx transit company.

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 Pebble smartwatch. Integrated accelerometer to make moves.

Took lead in Android development and released to the Pebble App Store.

BLACKJACK SIMULATOR

January 2014 | andy-blackjack.herokuapp.com

Created a blackjack simulator with graphic user interface using JQuery. Calculated current card sum, multi-game scores, card probabilities and win conditions.