

Hamza Azeem

Computer Engineering Student

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WORK EXPERIENCE

Amazon A9 | Software Engineer

Aug. 2017 – Present

Python • Java • R

- Developing Visual Search team's first machine-learned relevance rankings model for most frequent query-type in Amazon's camera search: barcodes
- First iteration increased barcode match rate by 10% after deployment, already meeting end-of-year team goals
- Researching methods such as subset selection for model enhancements

Python • AWS (Lambda, S3, ElasticSearch)

Aug. 2016 – Dec. 2016

- Designed & launched a near real-time ingestion pipeline & its API that reduced data ingestion delays from 3 days to 2-5 seconds
- Developed backend service for near real-time addition/correction/deletion of Amazon items from the Visual Search catalog through barcode search-keys

Ultimate Software | Software Engineer

Jan. 2016 – Apr. 2016

Java • ElasticSearch • Logstash • Kibana • SQL • Android

- Owned research project for near real-time log management & analytics for entire TouchBase app's admin & Android systems
- Allowed streaming of 100k+ logs on a single cluster under 1s search times

Oracle | Software Engineer

May 2015 – Aug. 2015

Java • JavaScript • Chrome API

- Designed, owned, & shipped a new Oracle product within 3 months
 - Prospect-hunting app gained 1300+ active users since product launch
- Implemented new front-end for Oracle's Sales Tools Profiler client

Synacor | Software Engineer

Aug. 2014 – Dec. 2014

JavaScript • Python • Mocha • Chai • Sinon

- Independently developed several MVC web-apps for company's Github repo with full-coverage testing using Mocha-Chai-Sinon libraries

PROJECTS

EyeDrone (Intelligent Object Identification Aide)

[In active development] • A.R Drone • JavaScript • Node.js • Microsoft Azure • OpenCV

- Uses voice input to command drone to find specific objects within indoor setting
- Trained OpenCV model to detect faces in real-time camera stream

Eloqua Sales Tools for Chrome

JavaScript • Chrome API • Webpack

- Created email & context scraper to profile prospects on any company's website
- Modelled with statechart architecture for highly scalable & modular design

LANGUAGES

- Java
- Python
- JavaScript
- C++
- SQL
- HTML
- CSS

TECHNOLOGIES

- Git
- SQL
- AWS
- Bash
- Linux
- Hadoop
- ElasticSearch

EDUCATION

University of Waterloo

Candidate for B.A.Sc in Computer Engineering
2013 – 2018 (Expected)

Relevant Courses

- Co-operative & Adaptive Algorithms
- Distributed Systems
- Operating Systems
- Compilers
- Databases
- Computer Networks

INTERESTS

- Travel
- Reading
- Beatboxing
- Spoken Word
- Computer Vision