Hamza Azeem

Computer Engineering Student

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WORK EXPERIENCE

Amazon A9 | Software Engineer — Aug. 2017 – Dec. 2017
Python • Java • R

- Developed Visual Search team's first machine-learned relevance rankings model for most frequent query-type in Amazon's camera search: barcodes
- Final iteration increased barcode match rate by 14% after deployment, exceeding end-of-year team goals
- Created data-collection stream to aggregate new data for model retraining

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 1700+ 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)
A.R Drone • JavaScript • Node.js • Microsoft Azure • OpenCV

- Real-time traffic sign tracking on drone camera using image localization algorithm inspired by Simulated Annealing optimization

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
B.A.Sc in Computer Engineering
2013 – 2018

Relevant Courses

- Fuzzy Inferencing Systems and AI
- Distributed Systems
- Operating Systems
- Compilers
- Databases
- Computer Networks

INTERESTS

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