Raghavprasanna Rajagopalan

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Experience

Intuit *Mountain View, CA*
SOFTWARE ENGINEERING CO-OP *January 2018 - June 2018*

- Launched a platform-wide orchestration service leveraging AWS to modify data and resources across the components and services that make up QBO. (AWS Step Function & Lambda, Docker, CircleCI, Python & Java)
- Redesigned the management of CA certs in the QBO platform and led an effort to externalize the QBO trust store from the monolithic code base. (Docker, Jenkins, Keytool, Python & Shell)

Charles River Development *Burlington, MA*
SOFTWARE ENGINEERING CO-OP *January 2017 - June 2017*

- Built an application server cluster monitoring tool that enabled easy data polling metrics configuration. It is used during server performance tests. (Tomcat, J2EE, JMX, JDBC, Java & SQL)
- Designed a lightweight API verifier that enforces backwards compatibility in the Java client API and integrated the standalone tool with the build cycle. (Java & Batch scripting)

Dell EMC *Franklin, MA*
SOFTWARE INTERN *May 2016 – December 2016*

- Built an application to convert product exam certification descriptions to a newer format; led to 70 exam templates being updated and going live. (Apache POI API, Java)
- Analyzed certification and monthly invoice data to determine where losses incurred; resulted in a change in how product exams were ordered. (Microsoft Access, Excel)

Projects (see github)

biolink *October 2019 - Present*
Developing an extensible framework for building a graph of interconnected biological knowledge in Neo4J, exposing it via a queryable REST API, and exploring it via a React app.
Advisor: Prof. John Rachlin.
(React, Python, Flask, Neo4j)

league-ai *February 2019 - April 2019*
Uses artificial intelligence and machine learning techniques such as logistic regression, decision trees (random forest), and neural networks to predict match outcomes in League of legends.
(Python, R, Tensorflow, Keras)

bluebikedata *October 2018 - December 2018*
Visually explores data generated by Bluebike in a webapp that runs services to aggregate the data, exposes that data via a REST API, and queries it on the front end.
(Kubernetes, CloudSQL, Tableau, Docker, Flask, Python & MySQL & HTML)

Education

Northeastern University *Boston, MA*
M.S. IN COMPUTER SCIENCE *expected*
SPECIALIZATION IN A.I. *May 2020*

- GPA: 3.47/4.0

B.S. IN COMPUTER SCIENCE & BIOLOGY *May 2019*

- GPA: 3.64/4.0
- Dean's List: Fall 2015, Fall 2017, Fall 2018

Skills

Languages
Python, Java, SQL, R, Elm, JavaScript, Cypher, Racket, Perl, HTML, CSS, C

Frameworks
Docker, Flask, React, AWS, GCP, J2EE, AngularJS

Tools
Bash/Zsh, Git & Github, MongoDB, Heroku, Neo4J, CircleCI, Serverless, Conda, Jenkins, Postman, SpaCy, NLTK

Coursework

Graduate
Natural Language Processing
Human Computer Interaction
Foundations of AI
Managing Software Development
Computer Systems
Principles of Programming Languages
Bioinformatics I

Undergraduate
Object-Oriented Design
Algorithms and Data Structures
Theory of Computation
Database Design
Biochemistry
Neurobiology

Interests

Climbing, volleyball, *League of Legends*