

Rohan Tilva

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EDUCATION

JOHNS HOPKINS UNIVERSITY | B.S. COMPUTER SCIENCE, MINOR APPLIED MATHEMATICS AND STATISTICS

Expected May 2019 | Baltimore, MD • Cum. GPA: 3.78

ACT: 35 (Mathematics: 36, English: 36, Science: 35, Reading: 34)

EXPERIENCE

AMAZON | SOFTWARE DEVELOPMENT ENGINEER INTERN

September 2018 - Present | Seattle, WA

- Adding support for Amazon device accessories (ie. a remote for Fire TV) in Java Spring orchestration services.
- Ensuring the correctness of downstream logistics by validating a product's buyability, fulfillment services, registration, replacements, and more before that product can be released on Amazon's marketplace.

CAPITAL ONE | SOFTWARE ENGINEERING INTERN

May 2018 - August 2018 | Washington D.C. Metro Area

- Built RESTful Java API using Spring Boot to fetch and deliver credit card applicant data to card decisioning process.
- Created template XML files to structure applicant data, replacing previous method of manually generating new XML for any given credit card candidate profile.
- Managed PostgreSQL DB to hold applicant data from Amazon S3, and constructed ReactJS UI to host RESTful API service.

JOHNS HOPKINS UNIVERSITY | MACHINE LEARNING & INTRO JAVA COURSE ASSISTANT

Aug 2017 - May 2018 | Baltimore, MD

- Machine Learning (Spring 2018): Held office hours, helped students use PyTorch library for assignments.
- Intro Java (Fall 2017): Held office hours, debugged code, and taught basic OOP principles to simple data structures in Java.

ORACLE CORPORATION | SOFTWARE ENGINEERING INTERN

May 2017 - Aug 2017 | Boston, MA

- Designed end-to-end, Selenium-based C# testing framework for Oracle InForm and decreased testing time by 60%.
- Used testing framework to find and fix errors relating to the rendering of InForm's front-end and the correctness of InForm's clinical trial data passed to Oracle Database.

PROJECTS

WIKI-ENGINE | PYTHON, DOCKER, CONCRETE-PYTHON, NLTK, LUCENE, SCIKIT-LEARN

- Search engine web app queries server holding Wikipedia text and, given a query, ranks most relevant answer candidates on UI according to scores assigned by deep neural network. Makes heavy use of IR metrics like TF-IDF.

IMAGE-PREDICTOR | PYTHON, PYTORCH

- Uses Convolutional Neural Networks and Feed-Forward Neural Networks built on PyTorch to maximize classification accuracy on images from Google Quick Draw. Focuses on CNN's.

OPTIMAL PLAYLIST | PYTHON, FLASK, HEROKU, JS, HTML/CSS

- Heroku web app uses Spotify API to scrape most popular songs from specified Spotify accounts to create mutually liked, common playlist hosted on host user's Spotify account (optimalplaylist.herokuapp.com).

TECHNICAL

PROGRAMMING

Over 3500 lines:

Java • C++ • Python • \LaTeX

1000-3500 lines:

C • C# • ReactJS

Software Tools:

OracleDB • PostgreSQL • Selenium • JUnit 4

Hadoop • OpenMP • MPI • Java Spring Framework

RELEVANT COURSEWORK

Data Structures • Algorithms

Machine Learning • Data Mining

Networks • Parallel Programming

Computer System Fundamentals

Automata and Computation Theory

Text Mining (ML, NLP applications)

UI & Android Development