

# 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

## EXPERIENCE

**AMAZON**  | INCOMING SOFTWARE DEVELOPMENT ENGINEERING INTERN

Start: September 2018 | Seattle, WA

**CAPITAL ONE**  | SOFTWARE ENGINEERING INTERN

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

- Built RESTful Java API using Spring Boot to replicate and deliver credit card applicant data to card decisioning process.
- Managed PostgreSQL DB in which applicant data from Amazon S3 was modified and routed to, and constructed ReactJS UI to serve as front-end for RESTful API service.

**JOHNS HOPKINS UNIVERSITY**  | MACHINE LEARNING & INTRO JAVA COURSE ASSISTANT

Aug 2017 - Present | 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%.
- Flagged and fixed errors relating to rendering of InForm's form data within Oracle database (SQL).
- Added C# features to fetch data from OracleDB to fulfill user requests on Inform's data viewer.

**NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY**  | SOFTWARE ENGINEERING INTERN

May 2016 - Aug 2016 | Gaithersburg, MD

- Implemented 20 XML/YANG parsing services in AngularJS for parsing of various formats of cloud metric data.
- Constructed a web-based GUI in JavaScript (using Yeoman) with MongoDB database to host XML/YANG parsing services.

## PROJECTS

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

- Primitive search engine web app queries server holding Wikipedia text and, given a query, returns most relevant answer candidates to UI according to scores assigned by pre-trained deep neural network.

**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 5000 lines:

Java • C++ • Python •  $\LaTeX$

1000-5000 lines:

C • C# • ReactJS

Software Tools:

OracleDB • MongoDB • PostgreSQL • Git • Selenium •

JUnit 4 • Hadoop • OpenMP • MPI • Java Spring Boot

### 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