

Rohan Tilva

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EDUCATION

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

Expected May 2019 | Baltimore, MD • Cum. GPA: 3.75

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

- Johns Hopkins Varsity Baseball
- Course Assistant - Machine Learning / Intro Java
- Zinda Bollywood Dance Team
- Phi Gamma Delta Fraternity

EXPERIENCE

CAPITAL ONE | INCOMING SOFTWARE ENGINEERING INTERN

Start: May 2018 | Washington D.C. Metro Area

JOHNS HOPKINS UNIVERSITY | MACHINE LEARNING & INTRO JAVA COURSE ASSISTANT

Aug 2017 – Present | Baltimore, MD

- Machine Learning (Spring 2018): Hold office hours, help students use PyTorch and TensorFlow libraries 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 and fully automated end-to-end, Selenium-based C# testing framework for Oracle InForm 6.1.1.3 to decrease testing time by over 60%.
- Flagged and fixed errors relating to rendering of InForm's form data within Oracle database (SQL).
- Developed in C# to add data viewing functionality to InForm.

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY | SOFTWARE ENGINEERING INTERN

May 2016 – Aug 2016 | Gaithersburg, MD

- Standardized 200+ cloud metrics for Amazon Web Services, Google Cloud using XML and YANG.
- Implemented an XML/YANG parsing service in AngularJS for cloud metric data.
- Constructed a web-based GUI in Javascript (using Yeoman Angular Fullstack framework) with MongoDB database to host XML/YANG parsing service.

EARTH RESOURCES TECHNOLOGY | FRONT-END DEVELOPER || INFORMATION TECHNOLOGY INTERN

May 2015 – Aug 2015 | Laurel, MD

- Front-end development with HTML/CSS, Javascript to alter company website's appearance.

PROJECTS

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

- Web-app queries Concrete SearchService server holding Wikipedia articles and 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 to maximize classification accuracy on images from Google Quick Draw. Focuses on CNN's.

TECHNICAL

PROGRAMMING

Over 5000 lines:

Java • C++ • C# • Python (PyTorch, NumPy, pandas, scikit-learn) • \LaTeX

1000-5000 lines:

C • Assembly (MIPS, 6502) • HTML/CSS • Angular.js

Software Tools:

Oracle (SQL) • MongoDB • UNIX • Git • Selenium • JUnit 4

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