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: 3.72
ACT: 35 (36 Mathematics, 36 English, 35 Science, 34 Reading)

- Johns Hopkins Varsity Baseball
- Teaching Assistant - Introduction to Java Programming
- Zinda Bollywood Dance Team
- Phi Gamma Delta Fraternity

EXPERIENCE

JOHNS HOPKINS UNIVERSITY | Teaching Assistant - Introduction to Programming in Java
Aug 2017 – Present | Baltimore, MD

- Teach topics ranging from basic Object-Oriented Programming principles to simple data structures in Java.
- Hold office hours, debug code immediately, and walk students through problem sets.

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.
- Used Database Management Systems like Microsoft Access to organize company equipment.

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 of 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:
UNIX • Git • Selenium • JUnit 4
Databases:
Oracle (SQL) • MongoDB

RELEVANT COURSEWORK

Data Structures • Algorithms
Machine Learning • Data Mining
Computer System Fundamentals
Automata and Computation Theory
Text Mining (ML, NLP applications)

HONORS

Dean's List (5/5 Semesters)
National Merit Finalist