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.

RESEARCH

JOHNS HOPKINS UNIVERSITY | Undergraduate Research Assistant

Feb 2016 – Sep 2016 | Baltimore, MD

Modeled protein-protein interactions using differential equations (ODE, PDE) and VCell (Virtual Cell Modeling software). Organized and interpreted data from VCell with MATLAB.

TECHNICAL

PROGRAMMING

Over 5000 lines:
Java • C++ • C • C# • Python (NumPy, pandas, scikit-learn, matplotlib) • LaTeX
1000-5000 lines:
Assembly (MIPS, 6502, x86) • HTML/CSS • Javascript (Angular)
Software Tools:
UNIX • Git • JIRA • 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 (4/4 Semesters)
National Merit Finalist