

ROHAN SHAH

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OBJECTIVE

To obtain full-time position as a Software Engineer

EDUCATION

The Pennsylvania State University, University Park, PA
Master of Science in *Computer Science and Engineering*
Bachelor of Science in *Electrical Engineering*

Anticipated Graduation: May 2020
Graduation: December 2016

Relevant Coursework: Algorithm Design, Data Structures, Large-Scale Machine Learning, Data Mining, Database Management Systems, Programming Language Concepts, Computer Architecture, Operating Systems

WORK EXPERIENCE

The Pennsylvania State University, University Park, PA
Graduate Teaching Assistant

May 2018 – Present

- Assisted approximately 650+ students over the course of 1.5 years
- Delivered lectures to junior and senior level classes of 150 students, with high student participation rate
- Assisted courses like DataStructure & Algorithms, Numerical Analysis, Discrete Mathematics, etc.

Apex Technology Systems, South Plainfield, NJ
Software Developer

January 2017 – December 2017

- Developed dynamic database driven websites using MYSQL, PHP, and Bootstrap (HTML, CSS, JS) for a gas company of 100,000+ users
- Designed JavaScript functions to handle complex form validations based on wireframe diagrams
- Gained working knowledge of Spring MVC architecture, Hibernate framework, and RESTful web services

RESEARCH EXPERIENCE

The Pennsylvania State University, University Park, PA
MS Thesis

August 2019 – Present

- Investigating XCode Server and Continuous Integration using Travis CI to automate grading for programming assignments
- Research available data of programming assignments to implement data mining techniques to detect plagiarism

The Pennsylvania State University, University Park, PA
Graduate Research Assistant, Computational Biomechanics Lab

May 2019 – August 2019

- Calibrated Prevent Biometrics' sensor to study head injury or concussion during football games
- Collaborated with dept. of Anthropology to study the growth of mice, by processing phantom images in ImageJ

The Pennsylvania State University, University Park, PA
BS Thesis, Magnetic Resonance (MR) and Controls Lab

June 2015 – December 2016

- Designed computer simulations to filter field fluctuations found in powered magnets, in order to make MR Imaging machines smaller, affordable, and cryogen-free
- Collaborated with researchers from Penn State, Florida State University, and National High Magnetic Field Lab

SKILLS AND INTERESTS

- Java, R, Scheme, Linux, Travis CI, MySQL, NOSQL, MongoDB, Hibernate framework, Spring (MVC) framework, RESTful web service, PHP, HTML, CSS, JavaScript, C, C++, Swift, Bootstrap, MATLAB
- Managed a dance team of 16 dancers at Penn State and organized their travel