

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 May 2018 – Present

Graduate Teaching Assistant

- 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 January 2017 – December 2017

Software Developer

- 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 August 2019 – Present

MS Thesis

- 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 May 2019 – August 2019

Graduate Research Assistant, Computational Biomechanics Lab

- 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 June 2015 – December 2016

BS Thesis, Magnetic Resonance (MR) and Controls Lab

- 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