

Shen Huang

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EDUCATION

California State University, Northridge, Northridge, California, USA

September 2017 - June 2019 (Expected)

MS in Computer Science

Queens University, Kingston, Ontario, Canada

June 2015

BS in Electrical Engineering

Writer at Medium

https://medium.com/@shenhuang_21425

Writer at Medium for **freeCodeCamp.org**, **Frontend Weekly**, **Towards Data Science**, **The Startup** and **Hacker Noon**. Articles got published on **PenTest Magazine** upon their requests. Good writing skills and passionate in helping other developers.

SKILLS

Programming Languages: Object-oriented design using **Java**, front end development with **HTML**, **JavaScript**, backend development with **Go** and **Node.js**. Web testing with **Selenium**. Statistical analysis using **Python/MATLAB/OCTAVE/Excel**, mobile game development with **Unity-C#**, microprocessor programming with **Arduino**, **C** and **Assembly**. File manipulation and installation management with **Bash**.

Computer Science: Data structures, algorithms, computer system architecture, object-oriented programming, operating system, signal processing, data analysis, artificial intelligence (both machine learning and game AI).

WORK EXPERIENCE

Graduate Assistant

Starting September 2018

- Assisted the professor with research tasks including code production.

Software Engineer Internship, CETC Motor

July 2013 - September 2015

- Worked on a compiler to support floating point calculation by modifying the lexical and syntax analyzer.
- Added English and Chinese support for help documents.

Electrical Engineer Internship, State Grid Corporation of China

July 2012 - September 2012

- Designed and Implemented a Java application to help managing error reports.
- Collaborated with six other engineers to validate the integrity of the communication system between the distribution station and the headquarters.

PROJECTS

Social Media Page Automated Testing

- Created a social media page with JavaScript, HTML5 and CSS with a Node.js backend.
- Tested the social media page with Selenium in Java, with Chrome driver in mobile mode.
- Utilized Java robot to assist the testing, thus able to generate touch gestures which is listened by the backend.

Java Test Case Organizer

- Created a test case organizer in Java with a complete, easy-to-use GUI.
- The shipping requirement has a different format organizing the files compare to how the engineers prefers it. Thus, the organizer is created to automate the processes, saving other test engineers some time.

Game Macro Scripts

- Created some macro scripts to play video games in various languages and frameworks.

Test Case Exploiting Standards

- Reworked on some test cases to exploit the standard.
- The test cases became more efficient, up to 30% less procedures.

Queens ECE Annual Robot Competition, 1st Place

- Designed a slam-dunk robot, code based on Arduino. Robot moves and grabs with servo motors utilizing Pulse Width Modulation. Robot senses the environment through touch sensor and distance sensors, and therefore was designed to have a close loop control system to adjust the speed for optimal performance.