

NOLAN SHAH

ADDRESS

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EDUCATION

University of Houston, Houston, TX

Until May 2018

B.Sc. in **Computer Science**

Current GPA: 3.754/4.000

Relevant Courses: *Computer Architecture, Data Structures, Intro. to Automata and Computability, Operating Systems, Design of File and Database Systems, Calculus, Discrete Mathematics, Linear Algebra, Statistics*

Carnegie Vangaurd High School, Houston, TX

Aug. 2011 to May 2015

Relevant Courses: *AP Calculus AB & BC, AP Computer Science*

EXPERIENCE

Research Assistant at University of Houston, Houston, Texas.

Feb. 2016 to Present

Working under Dr. Weidong (Larry) Shi primarily on project to secure ng9-1-1 call centers. Configured, optimized, and performance tested VoIP software (primarily Asterisk). Assisted in development and integration of machine learning based synthetic speech filtering module. Additionally, participating in brainstorming sessions on the application of blockchain, smart contracts, and cryptocurrencies.

Engineering Contractor at Houston Escape Room, Houston, Texas.

Summer 2015

Designed, built, and installed RFID based electronic locking system. Designed and fabricated circuits, programmed ATmega328P microcontroller.

TECHNICAL SKILLS

Programming: Proficient in Java, C/C++, HTML, JavaScript, CSS. Familiar with Python, SQL, Bash, LaTeX. Beginner with PHP, UML.

Tools: Git, Subversion, GCC, Make.

OS: Linux, Windows.

Other: Soldering, Basic Electronics Design, Basic Woodworking.

PROJECTS AND ACTIVITIES

Current

- Exploring machine learning (currently learning concepts and identifying research areas for thesis next Spring)
- Researching applications of and demand for robots
- Writing book to teach robot programming to high school students

Past

- Implemented covert channel communications using branch predictors
- Participated in 3 Day Startup and hackathons: HackRice and CodeRED.
- Collected and analyzed social network data on entire high school class
- Designed and built a RFID key locking mechanism
- Attempted to build calendar web application. (about 70% complete, but shelved as I moved to other projects)
- Participated in FIRST, VEX Robotics Competition in high school as lead programmer, volunteer at competitions, and mentor to new students
- Designed and built a go-kart (for a high school makerspace club which I founded)
- Participated in the XPrize Ocean Health Competition as a programmer with team from Rice University (team had to leave the competition due to problems with theoretical sensor)