Edward Shen

Summer 2018

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Education

Northeastern University Boston, MA
Sept. 2017–Present

College of Computer and Information Sciences

Pursuing Degree: BA in Computer Science with a Minor in Mathematics
Expected Graduation: May 2021

University At Buffalo Buffalo, NY
Sept. 2016–May 2017

College of Arts and Sciences

Enrollment Type: Dual enrollment
Related Courses: Multivariate Calculus, Introduction to Linear Algebra

Skills

Languages:
Proficient: Java, JavaScript, HTML, CSS
Familiar: Python, Sass, ECMAScript 6
Explored: C/C++, Ruby
Frameworks/Libraries: Node.js, socket.io, OpenCV (Java)
Other: Git, Jekyll

Experience

Administrative Specialist ResNet Resource Center
Sept 2017-Present

Northeastern University

- Triaged computer issues reported by university students
- Created and managed tickets using ServiceNow
- Assigned technicians to work with customers or on specific tickets
- Ensured tickets are routinely updated and hardware was accounted for

Summer Research Assistant Amorphous Robot Lab
June 2015-Sept. 2015

University at Buffalo

- Assisted with developing algorithms and hardware that can reliably build structures in unstructured terrain
- Printed servo and motor circuit boards and installed SMT components
- Communicated with hardware on low level protocols such as I^2C

Projects

Harmony

- Harmony is an peer-to-peer encrypted group messaging based on the (n+1)sec protocol, offering deniable distributed communications and forward secrecy.
- Winning entry of HuskyHacks 3, Northeastern University's 36-hour hackathon.
- Used the Spread toolkit to ensure message order and consensus.
- Focused on writing Qt UI, but assisted in all areas of implementation.

MagicMirror² Modules

- Developed open-source modules for MagicMirror², a Raspberry Pi platform for smart mirrors. Written in JavaScript and CSS.
- Modules include a Massachusetts Bay Transportation Authority station module and a paging module used to organize other modules.

Diceware Password Generator

- Utilized the Java implementation of the computer vision library OpenCV to recognize dice to generate truly random and secure passphrases
- Utilized a cascade of boosted classifiers working with Haar-like features. Positive and negative samples were created in-house.

Source code for these projects are available on GitHub.