







# Edward Shen

Available May-December 2019

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## Education

### Northeastern University Boston, MA

Sept. 2017–Present

Khoury College of Computer and Information Sciences

Degree: Candidate for a Bachelor of Science in Computer Science May 2021

Honors: 3.81 / 4.00 GPA, Dean's List

Relevant Courses: Data Collection, Integration, and Analysis; Machine Learning/Data Mining 1; Algorithms and Data; Object-Oriented Design; Networks and Distributed Systems

## Skills

Languages: *Proficient:* JavaScript (Node.js), Java, HTML5, CSS  
*Familiar:* Rust, Python, Typescript, Latex  
*Explored:* C/C++, Ruby, Racket

Frameworks: ReactJS, GraphQL, Sass

Other: Git, Jekyll, (Arch) Linux, Bash, VS Code,

Certifications: CompTIA A+, Dell Certified Technician, Apple Certified Mac Technician

## Experience

### Computer Experience Technician ResNet Resource Center

Sept. 2017–Present

Northeastern University

- > Document and resolve student software and hardware issues.
- > Assign technicians to work on specific incidents leveraging individual capabilities and specializations or with directly with customers.
- > Aquired certifications to work on hardware issues for Apple and Dell computers.
- > Advise and collaborate with other technicians as remediation problems arise.

## Projects

### Dotfile Rust

- > Command line application written in Rust to manage configuration files for existing Arch Linux installations and package installer for new installations.
- > Automated management of multiple configuration groups and installations for modular configuration and selection of customized packages.
- > Extensible functionality implemented with pre- and post- install script hooks for non-standard installations.

### MagicMirror<sup>2</sup> Modules JavaScript

- > Developed multiple 3rd party modules for smart mirror platform MagicMirror.
- > Interfaced with Boston's MBTA API to create public transport status module.
- > Implemented efficient solution to multiplex MagicMirror UI into separate pages.
- > Performed bug fixes on upstream 1st party MagicMirror modules.

### Harmony C++

- > Peer-to-peer encrypted group messaging system 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.
- > Utilized the Spread toolkit library to ensure message order and consensus over distributed network.