# Wayne Xun

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#### **EDUCATION**

## **Northwestern University**

June 2013 - Present

Robert McCormick School of Engineering and Applied Science

- Bachelor of Science in Computer Science, anticipated graduation in June 2017
- Major GPA: 3.71, GPA: 3.51

#### **EXPERIENCE AND RESEARCH**

**Amazon** Software Development Engineer Intern Seattle, WA

Spring 2017

Incoming Spring intern on the Global Financial Systems team from Jan. 2017 – Mar. 2017

The MathWorks Natick, MA

Computer Science Development Group Intern

Summer 2016

- Expanded Matlab Online's login page to accommodate special user session corner cases
- Extended server-side code to incorporate additional cases and handle unexpected user sessions
- Designed and implemented UI for new pages with the Dojo toolkit using the Dijit library

### **Northwestern University**

Evanston, IL

Web Security Research Staff

Winter 2015, Spring 2016

- Prototyped a machine learning CSP generator on an academic team for web security research
- Implemented generator to create AST-like syntax structures from scripts for data learning phase

Teaching Assistant for Network Penetration and Security

Fall 2016

Deployed two Linux servers with lab environments and assisted with grading and coursework

**Intel Corporation** Hillsboro, OR

Software Development Engineer Intern

Summer 2015

- Created "Intel Bluebench", a data visualization web application illustrating laptop benchmarks
- Built using Google Charts with custom JavaScript and responsive Bootstrap styling

### **PROJECTS**

## **Hungry Einstein** (*Mobile Development*)

Spring 2016

- Created a hybrid mobile app for Northwestern students to receive tutoring in exchange for food
- Implemented UI features using AppGyver's Supersonic framework with AngularJS, HTML5 and CSS

#### VideoGameML (Machine Learning)

Spring 2016

- Examined various neural networks models' ability to predict market trends of in-game marketplaces
- Scraped and cleaned data using Ruby and Node is scripts before training and predicting with Weka

## **EXTRACURRICULARS AND HONORS**

**ACM ICPC Regionals 2016** (Competitive Programming):

Top 25% at mid-central regionals

Microsoft BTS USA Nationals 2016 (Capture the Flag): Hack the Vote 2016 (Capture the Flag):

Nationals for competitive hacking event Top 9% at RPISEC's global competitive hacking event

MathWorks Hacks 2016 (Hackathon):

Geographic visualization of IP packet paths

Wildhacks 2016 (Hackathon): Wildhacks 2015 (Hackathon): Growth hack leveraging data mining and SMTP

Social fitness incentivization mobile application

#### RELEVANT COURSEWORK

**Data Structures Algorithms** Computer Systems **Network Penetration** Agile Development Computer Networking Machine Learning Cloud Comp. Networks

## LANGUAGES AND SKILLS

Languages: Python, JavaScript, Web (HTML, CSS), C++, Bash, Matlab

Skills/Technologies: Node, Git, Perforce, AWS, MongoDB, Linux, AngularJS, Dijit, Dojo, Supersonic, Agile