

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
- GPA: 3.51, Major GPA: 3.71

EXPERIENCE AND RESEARCH

Amazon

Seattle, WA

Software Development Engineer Intern

Spring 2017

- Incoming Spring intern on the Alexa team from Jan. 2017 – Apr. 2017

The MathWorks

Natick, MA

Computer Science Development Group Intern

Summer 2016

- Expanded support for additional login cases on Matlab Online and created UI for added pages
- Extended state machine representations and pushed server changes to Amazon EC2 hosts

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 template training and execution using the Node framework with a MongoDB database

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.js 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):** Nationals for competitive hacking event
- **Hack the Vote 2016 (Capture the Flag):** Top 9% at RPISEC's global competitive hacking event
- **MathWorks Hacks 2016 (Hackathon):** Geographic visualization of IP packet paths
- **Wildhacks 2016 (Hackathon):** “Enhanced” blog analytics leveraging Tumblr XSS vulnerability
- **Wildhacks 2015 (Hackathon):** Social shopping and gift-giving application
- **Wildhacks 2014 (Hackathon):** Fitness gamification Android application

RELEVANT COURSEWORK

Data Structures	Algorithms	Computer Systems	Network Penetration
Machine Learning	Agile Development	Computer Networking	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