

Wayne Xun

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EDUCATION

Northwestern University

Robert McCormick School of Engineering and Applied Science

Evanston, IL

June 2013 - Present

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

EXPERIENCE AND RESEARCH

The Mathworks

Computer Science Development Group Intern

Summer 2016

- Optimized figure rendering in Matlab Online resulting in 3x faster figure render times
- Created new account update logic and interfaces to the Matlab Online login page using Dijit and Dojo
- Updated related server code in Java and deployed changes to Amazon EC2 hosts

Northwestern University

Web Security Research Staff

Jan. 2016 – June 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 (Network Penetration and Security)

Sept. 2016 - Present

- Set up lab environment, grading services and credentials on two new Linux servers

Intel Corporation

Software Development Engineer Intern

Summer 2015

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

PROJECTS AND ACHIEVEMENTS

Hungry Einstein

Evanston, IL

Mobile App 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
- Provided asynchronous data storage, retrieval, and modification with a Firebase back end

VideoGameML

Evanston, IL

Machine Learning Project

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

Build The Shield 2016 Finalist

Redmond, WA

Microsoft Corporation

Jan. 2016

- Participated in the final round of Microsoft's International capture the flag cyber security competition
- Completed tasks involving cryptography, steganography, SQL injection, cross site scripting, etc

Wildhacks '15, '16

Evanston, IL

Hackathon

Nov. 2015, Nov. 2016

- Designed and refactored a fitness gamification app first in native Android, then as a hybrid mobile app

RELEVANT COURSEWORK

Data Structures

Algorithms

Computer Systems

Machine Learning

Agile Development

Computer Networking

Digital Forensics

Network Pen. and Security

Network Problems in Cloud Computing

SKILLS

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

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