

Andrew Gu

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Education

University of Maryland,
College Park
Major: BS, Computer
Engineering
Anticipated: Spring 2018

Languages

C (Advanced)
Ruby
Java
Python
Javascript
PHP (Proficient)
Y86 Assembly / MIPS / x86
Matlab
OCaml (Beginner)
Prolog
Verilog
C++

Frameworks/Technologies

Node.js (Advanced)
Ruby on Rails
jQuery
Ember.js
Git
React.js (Proficient)
Angular.js
Backbone.js
Redis (Beginner)
Elasticsearch

Databases

MySQL
MongoDB
PostgreSQL

Electronics

Arduino
PSPICE

Experience

Extreme Blue Technical Intern May '17 - Present
IBM - Austin, TX
>> Utilizing Watson, Node.js, and machine learning to build a real-time virtual agent for service desk agents.

AMP Tutor, CMSC216 Jan. '17 - May '17
University of Maryland, College Park - College Park, MD
>> Teaching students core concepts related to C, Assembly, and Unix system processes.
>> Hold office hours to assist with projects and class material.

Software Developer Intern Jan. '17 - Feb. '17
Mid-Atlantic Crossroads - College Park, MD
>> Oversaw all UI and UX changes in redevelopment of application.
>> Established guidelines for writing maintainable & scalable Javascript and CSS.

Research Assistant Sept. '16 - Dec. '16
UMD Radiation Facilities - College Park, MD
>> Tested new hardware and wrote code samples for new and old equipment to begin development of a controls system for university's linear accelerator. Wrote in C++ and ROOT.

Junior Engineer Sept. '15 - Jan. '16,
June '16 - Aug. '16
FiscalNote - Washington, DC
>> Built various features and bug fixes with Ember.js on the front end Ruby on Rails as the API.
>> Wrote Elasticsearch queries to filter out bills from amendments and built UI filters based on the queries.
>> Researched, built features, and established guidelines to make app more accessible for visually impaired.
>> Built a version of FiscalNote for the European Union for our intern hackathon with a team of 5.

Software Engineering Intern June '15 - Aug. '15
AppCow - New York City
>> Developed a recommendation engine using PHP and the 42Matters API to deliver a personalized list of mobile apps.
>> Rebuilt entire backend API in Node.js and MongoDB in a team of 3.

Systems

Linux (Ubuntu, Arch)
OSX
Windows

Relevant Coursework

Computer Science:

- >> Introduction to Object Oriented Programming I
- >> Introduction to Object Oriented Programming II
- >> Discrete Structures
- >> Introduction to Computer Systems
- >> Organization of Programming Languages
- >> Algorithms
- >> Computer and Network Security

Electrical Engineering:

- >> Electric Circuits
- >> Elements of Discrete Signal Analysis
- >> Digital Logic Design
- >> Fundamental Digital Circuits and Systems Lab
- >> Analog and Digital Electronics
- >> Electronic Circuit Design Laboratory
- >> Signal and System Theory
- >> Computer Organization
- >> Engineering Probability

Math:

- >> Calculus III
- >> Differential Equations for Scientists and Engineers
- >> Linear Algebra for Scientists and Engineers