Andrew Gu

andrew@mingbogu.com http://mingbogu.com github.com/andrewgu12 College Park, MD • Cupertino, CA (408) 666 - 7838

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. | S (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.

>> Worked in a team of 4 to plan development and manage requirements with internal teams and external companies.

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