

Andrew Gu

✉ andrew@mingbogu.com

🌐 www.mingbogu.com

Industry Experience

IBM

Extreme Blue Technical Intern, Iris Team

May 2017 - Present

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 scope from IBM, ServiceNow, and a large hotel chain.
- » Led development of mobile application, desktop application, and API in React, React Native, Electron, and Node.js backed by MongoDB.

UMD Radiation Facilities

Research Assistant

Sept. 2016 - Dec. 2016

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.
- » Worked in C++ and CERN's ROOT library.

FiscalNote

Software Engineer Intern, Frontend Team

Sept. 2015 - Aug. 2016

Washington, D.C.

- » Built out feature to filter out legislative bills from amendments utilizing Elasticsearch in Ruby on Rails.
- » Researched, built features in Ember.js, and established guidelines to make app more accessible for visually impaired.
- » Won our intern hackathon by working in a team of five to build a version of FiscalNote for the European Union.

UpChannel

Software Engineer Intern

June 2015 - Aug. 2015

New York City, NY

- » Developed a recommendation engine using PHP and the 42Matters API to deliver a personalized list of apps for each mobile user.
- » Led a team of 3 in revamp of backend API in Node.js and MongoDB.

Projects

Universal Gradebook

Aug. 2017 - Present

- » Designing and building a modern grading and classroom management system for teachers.
- » Web and mobile app written in React and React Native. API is written in Ruby on Rails backed by PostgreSQL.

NAICA Website

June 2016 - Aug. 2016

- » Approached by the NAICA organization to redevelop organization's site. Led redevelopment of both front facing site and custom built content management system.
- » Written in Node.js, Express, Angular.js and backed by MongoDB.

Education

University of Maryland, College Park

Graduation date: May 2018

B.S. Computer Engineering

Technical Skills

Languages

Intermediate: C, Ruby, Python, Javascript, Java, PHP, Assembly

Basic: Matlab, OCaml, Prolog, C++, Verilog

Frameworks

Intermediate: Node.js, Ruby on Rails, Ember.js, React.js, Angular.js

Basic: Elasticsearch, Redis

Databases

Intermediate: MongoDB, PostgreSQL, MySQL

Systems

Intermediate: Linux (Arch, Ubuntu), OSX, Windows

Electronics

Intermediate: Arduino, PSPICE, FPGA