

# 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 requirements 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.
- » Wrote in C++ and CERN's ROOT library.

### FiscalNote

*Software Engineer Intern, Frontend Team*

Sept. 2015 - Aug. 2016

*Washington DC*

- » 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*

- » 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++

### 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