

Andrew Gu

✉ andrew@mingbogu.com
☎ (408) 666-7838 🌐 www.mingbogu.com

Education **University of Maryland, College Park**
B.S. Computer Engineering

Industry Experience

IBM July 2018 - Present
Software Engineer, Enterprise Content Management *San Jose, CA*

IBM May 2017 - Aug. 2017
Extreme Blue Technical Intern, Iris Team *Austin, TX*

- » Utilized Watson to build a real-time virtual agent for service desk agents.
- » Collaborated with an agile development team and product manager to plan and manage development from IBM, ServiceNow, and Intercontinental Hotels Group (IHG).
- » Led development of mobile application, desktop application, and API in React, React Native, Electron, and Node.js backed by MongoDB.

UMD Radiation Facilities Sept. 2016 - Dec. 2016
Research Assistant *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 Sept. 2015 - May 2018
Software Engineer Intern, Frontend Team *Washington, D.C.*

- » Built a variety of features and bug fixes across a Ember.js frontend backed by Ruby on Rails and Node.js microservices.
- » Researched user requirements and accessibility techniques, built features in Ember.js, and established guidelines to make app more accessible for visually impaired.
- » Won hackathon by working in a team of five to build a version of FiscalNote for the European Union (EU).

UpChannel June 2015 - Aug. 2015
Software Engineer Intern *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 three in revamp of the backend API in Node.js and MongoDB.

Projects

KSA K-Expo
» Built an app to allow audience members to vote for their favorite performance to determine the winner and a backend for the executive board to manage the performances and scores.

NAICA Website
» Led redevelopment of NAICA's front facing site and custom built content management system.
» Written in Node.js, Express, Angular.js and backed by MongoDB.

Technical Skills

Languages *Intermediate: C, Ruby, Python, Javascript, Java, PHP, Assembly(Y86, X86, MIPS)*
 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*