

# Andrew Gu

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## Education

### University of Maryland, College Park

*B.S. Computer Engineering*

- >> CMSC216 (Introduction to Computer Systems) Teaching Assistant
- >> CMSC412 Operating Systems, CMSC426 Computer Vision, ENEE439M Machine Learning, ENEE459B Reverse Engineering and Hardware Security, CMSC434 Introduction to Human Computer Interaction, CMSC414 Computer and Network Security

## Industry Experience

### Storyblocks

Jan. 2021 - Present

*Senior Software Engineer; Content Team & Work The Flow*

*Arlington, VA*

### Upside Business Travel

Aug 2019 - Jan. 2021

*Software Engineer, Apollo*

*Washington DC*

- >> Building features & fixing bugs covering shopping & booking inventory, security & monitoring across our React/Redux frontend backed by Go & Node.js microservices
- >> Contracted out as part of small team to Heartbeat Health to rebuild and launch their P2P video chat application during COVID-19 in their Kotlin & React Native powered mobile application.
- >> Planned, built and launched a brand new product targeted towards the PPP loans as part of small team in React & Node.

### IBM

July 2018 - July 2019

*Software Engineer, Daeja Viewone*

*San Jose, CA*

- >> Collaborating with two senior engineers, two product managers, and a designer in the UK and US to redesign a thirty year old document viewer by writing features in Java EE and Google Web Toolkit (GWT) and performing infrastructure upgrades to ensure stability and compatibility
- >> Researched and reverse engineered PDFs and XML files to inject vulnerabilities for testing
- >> Led team of six to build a SQL Search plugin for an existing product in React and Redux as part of IBM's New Hire Developer program

### IBM

May 2017 - August 2017

*Extreme Blue Technical Intern, IRIS Team*

*Austin, Texas*

- >> Utilized IBM Watson, Javascript, and Python 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 PoC mobile and desktop application that was deployed live to a test location and pitched to IBM, ServiceNow, and IHG executives to determine future expansion of the project's financial budget

## Volunteer

### Thinkful

April 2022 - Present

*Software Engineer Mentor*

*United States*

### Hackbright Academy

September 2018 - April 2022

*Software Engineer Mentor*

*San Francisco Bay Area*

- >> Mentoring students one-on-one at an all female engineering bootcamp looking to transition careers
- >> Clarifying concepts relating to software engineering and computing, performing code reviews for student's projects, giving advice and tips for coding interviews, providing overall moral support for the students, performing mock interviews

## Research Experience

### UMD Radiation Facilities

September 2016 - December 2016

*Research Assistant*

- >> Tested new hardware and wrote code samples for new and old equipment to begin development of a controls system for university's linear accelerator in C++ & CERN's ROOT library.

## 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

## Technical Skills

**Intermediate:** Java, Javascript, Node.js, React.js, Ember.js, Ruby, Ruby on Rails, Python, SQL, PHP, C

**Basic:** Kotlin, Electron, Google Web Toolkit, Angular, Typescript, Elasticsearch, Redis, Assembly, Security, Machine Learning, Computer Vision