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*
>> Led & built backend for automating bonus payouts to our contributors. The work involved interacting with designers, product managers, finance, data and other engineers.
>> Joined small team in building out initial MVP for bringing our application to a popular movie editor. Conducted ground work and research into various features, project set up, and integration into our existing engineering ecosystem.
>> Wrote scripts to check for & maintain quality in our entire stock media library, participated in weekly on-call rotation & triaged incoming issues, built other features across our engineering ecosystem for both the front & backend.

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

Volunteer

Thinkful   **April 2022 - Present**
Software Engineer Mentor   *United States*
>> Mentoring students 1:1 on engineering concepts & practice projects & provided moral support while they underwent the bootcamp. Taught basic web & developer best practices.

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