

Andrew Gu

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Education	University of Maryland, College Park <i>B.S. Computer Engineering</i>		Graduation date: May 2018
Industry Experience	IBM	May 2017 - Aug. 2017 <i>Austin, TX</i>	
	<i>Extreme Blue Technical Intern, Iris Team</i>		
	» Utilized Watson, Node.js, and machine learning to build a real-time virtual agent for service desk agents.		
	» Collaborated with an agile development team and product manager to plan development and manage development 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	Sept. 2016 - Dec. 2016 <i>College Park, MD</i>	
	<i>Research Assistant</i>		
	» 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 - Aug. 2016 <i>Washington, D.C.</i>	
<i>Software Engineer Intern, Frontend Team</i>			
» Built out feature to filter out legislative bills from amendments utilizing Elasticsearch in Ruby on Rails.			
» Researched user requirements and accessiblity techniques, 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	June 2015 - Aug. 2015 <i>New York City, NY</i>		
	<i>Software Engineer Intern</i>		
	» 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	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	
	» 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	<i>Intermediate:</i> C, Ruby, Python, Javascript, Java, PHP, Assembly(Y86, X86, MIPS) <i>Basic:</i> Matlab, OCaml, Prolog, C++, Verilog	
	Frameworks	<i>Intermediate:</i> Node.js, Ruby on Rails, Ember.js, React.js, Angular.js <i>Basic:</i> Elasticsearch, Redis	
	Databases	<i>Intermediate:</i> MongoDB, PostgreSQL, MySQL	
	Systems	<i>Intermediate:</i> Linux (Arch, Ubuntu), OSX, Windows	
	Electronics	<i>Intermediate:</i> Arduino, PSPICE, FPGA	