

Joshua Antonson

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Education	Carnegie Mellon University , Pittsburgh, PA	
	Master of Science in Electrical and Computer Engineering Bachelor of Science in Electrical and Computer Engineering Minor in Computer Science Overall GPA: 3.65/4.00	May 2016 May 2015
Skills	Programming Languages/Technologies:	
	Proficient: Python, JavaScript, React, Redux, NodeJS Familiar with: Java, C, HTML, CSS, JQuery, Bootstrap, Django, MySQL, Postgres	
Work Experience	TechChange , Washington, D.C.	August 2016 - Present
	Software Developer <ul style="list-style-type: none">I work across the full stack to help develop our proprietary online learning platform.	
	Image, Video, Multimedia (18-798) , Carnegie Mellon University	Spring 2015 - Spring 2016
	Teaching Assistant <ul style="list-style-type: none">Assisted in defining and managing lab assignments and projects for exploration of video computing algorithms including: object detection and tracking, motion analysis, 3D display.Led student exploration and documentation of using Emotiv EEG headset to record and analyze user brainwaves while watching videos.	
	Financial Intelligence Unit , Koror, Palau	Summer 2015
	Consultant <ul style="list-style-type: none">Built and deployed an Access database that enabled much more efficient search and analysis of financial reports than the previous manual method of paper reporting.Enabled electronic reporting between various financial institutions and the FIU through secure electronic transfer of reports in documented CSV file format.Trained staff of the FIU to use Access database and to efficiently import data into database.	
	Nike , Beaverton, Oregon	Summer 2014
	Consumer Digital Technology Intern (Platform Team) <ul style="list-style-type: none">Built prototype project to demonstrate end-to-end architecture using Netflix OSS and Cassandra database and the deployment process on AWS.Built API for a Nike+ app to enable efficient storage and retrieval of user information.	
Projects	HealthMate , Building Reliable Distributed Systems	Fall 2015
	<ul style="list-style-type: none">Developed a Personal Health Record aggregation website that automates the task of contacting, collecting, and storing a patient's medical history across hospitals/providers.Designed to be fault-tolerant to message loss and OS/process crashes through passive replication, fault detection, and graceful recovery to a consistent system state.	
	PaceMate , Special Topics in Embedded Systems: Sports Technology	Spring 2015 - Fall 2015
	<ul style="list-style-type: none">Led team through development process of designing a visual and responsive pacing system for athletes to improve performance in workouts and competition.Built the physical system of Arduino Yuns, IR sensors, and LEDs to intuitively light up corresponding to a target pace set by the user through an Android application.Enabled automatic recording of accurate user splits at key intervals and display of user workout history through a coaching and athlete dashboard website.	
	RideThru , Embedded Systems Design Capstone	Spring 2015
	<ul style="list-style-type: none">Proposed and built a virtual reality experience for stationary bikes as part of a 4-member team by equipping sensors to measure turning, speed, and fan control connected to a custom PCB.Integrated PCB communication with Unity3D and an Oculus Rift, so the user can bike through virtual terrains and play video games using the stationary bike as a controller, creating a fully immersive and responsive workout experience.	
Activities	Varsity Men's Track and Field, Carnegie Mellon University	2012 - present
	Varsity Men's Cross Country, Carnegie Mellon University	2011 - present