Carlin Au

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Education

Rutgers, The State University of New Jersey - New Brunswick   *October 2017*

Bachelor of Arts in Computer Science & Information Technology and Informatics

Skills

Languages

Java, C, Javascript, Python, SQL, HTML, CSS

Frameworks

Node.js, Express, Socket.io, Flask

Software

Git, AWS, bash, Unity3D, MongoDB, MySQL, SQLite3, Jenkins, Ubuntu, Arch

Experience

SightLogix   *May 2016 - August 2016*

Software Engineering Intern

- Designed and built framework of the backend for Coordination System 2 in Node.js.
- Handled auto-discovery of cameras using ONVIF and Service Location Protocol.
- Architected a system to pass critical camera messages to client in real-time using Socket.io.
- Built server that listens for three different types of messages and assigns them into queues based on content.

SightLogix   *May 2015 - August 2015*

Software Engineering Intern

- Reconstructed a regression testing tool to compare camera recorded metadata written in C, Bash, and Python.
- Dove into camera source code, solved issues in pointer arithmetic, and analyzed assembly code.
- Integrated the testing tool with Jenkins as a post-build action within nightly builds.

Projects

Camelot

https://github.com/HackRU/Camelot

A web application built with Node.js and MongoDB which handles HackRU's registration, attendee confirmation, user dashboards, and data collection. It manages over 1500 users and 600 attendees concurrently during HackRU.

passport-mymlh

https://www.npmjs.com/package/passport-mymlh

A npm module that fits within Passport, an ecosystem which simplifies Oauth 2.0 for web applications built with Node.js. This package is a strategy for authenticating with Major League Hacking's MyMLH service.

OrdrIn

Winner of Best Use of Amazon Web Services at HackNY Fall 2016

SMS-based service built with Node.js and Express using Twilio, Clarifai, and EatStreet APIs where users can order food from nearby restaurants solely through photo recognition.

Leadership

HackRU   *July 2015 - June 2017*

Executive Director 2016-2017

- Coordinated 8 teams to organize a 600+ attendees events on a budget of $35,000.
- Operated as the liaison between HackRU and Rutgers University Administration to implement new features such as an data collection of attendees and an improved contract system for sponsors.
- Formed the Research & Development team, a team of 11 software engineers, with the mission of building software to benefit HackRU, student life on campus, and open source projects.
- Oversaw the launch and development of 4 projects in a 4 month development cycle.

Director of Marketing 2015-2016

- Responsible for the design and development of the website written in Python/Flask.
- Led social media campaigns to increase visibility for HackRU on Facebook, Twitter, and Snapchat.