Oliver H.B. Scott

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Experience

July 2017 - Sept. 2017	**TradeIT, New York NY** *Software Engineer, Internship* • Worked closely with stakeholders to develop a "Developer Dashboard" for users to request sandbox and production access to TradeIT's servers, register for API keys, and manage account information. Complete with two-factor SMS authentication and email verification. • Server developed using Groovy/Grails and MySQL. Frontend using JQuery and Boostrap. Continuous integration orchestrated with Docker and Jenkins.
May 2015 - Feb. 2016	**N12 Technologies, Cambridge MA** *Systems Engineer, Internship* • Architected and implemented a closed-loop control system for a distributed system of machines, sensors, and devices, improving system reliability threefold. • Developed C APIs for five third-party devices for integration into the control loop. • Lead the automation of data collection by implementing N12's first RDBMS using MariaDB.
July 2014 - Dec. 2014	**Meditech, Framingham MA** *Data Repository Programmer, Internship* • Increased usability of data for customers by assisting in the migration of data from proprietary data formats to equivalent MySQL tables. • Resolved 38 bug requests using SQL and two proprietary languages during a period in which the team's bug count fell from 149 to 86. By year's end, the bug backlog had dropped 41% from the previous year.

Projects

America SCORES	• Designed and developed a RESTful API using Node.js, Express, and MySQL for a local non-profit. • Achieved full-coverage testing with Mocha and Chai in a test-driven development workflow.
Senior Capstone	• Developed a drone capable of fully autonomous flight using all open-source hobbyist technologies. • Designed and implemented a Python controls program to evaluate onboard telemetry and camera information to generate the motor commands necessary to follow a target at a fixed distance.
Orator	• MakeBU Hackathon, 2nd place. • Developed Javascript components for a web-app aimed at offering constructive feedback for public speaking.
Weather Applet	• Leveraged PHP, MySQL, and JQuery to access and visualize current, past, and future weather trends. • Hosted the server on a Digital Ocean droplet.

Education

Jan. 2017	**Northeastern University, Boston MA** *Bachelor of Science in Computer Engineering with a minor in Computer Science* GPA: 3.76, *Magna Cum Laude* Eta Kappa Nu IEEE Honors Society, University Honors Program, Dean's Merit Scholarship Recipient Courses: Machine Learning • Algorithms and Data Structures • Object Oriented Design • Computer Networks • Programming Languages • Introduction to Computer Science Clubs: NU Hacks, Wireless Club, Toastmasters International, NUTV Marketing Director.

Skills

Technical	<u>Languages/Frameworks</u>: *High Proficiency in:* Java, Grails, Groovy, Javascript, JQuery. *Experience with:* SQL, Node.js/Express, Mocha/Chai, Spring, CSS/Sass. <u>Tools</u>: Docker, Jenkins, MySQL, Git, VMware, OS X, Linux. <u>Methodologies</u>: Test-driven development and Agile (Jira and Confluence).
Misc.	UK and US citizen, limited working fluency in Spanish, cyclist, comedy enthusiast.