

Oliver H.B. Scott

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Experience

May 2015 - Feb. 2016	N12 Technologies, Cambridge MA <i>Systems Engineer, Internship</i> <ul style="list-style-type: none">• One of two engineers responsible for the automation, data acquisition and networking of a distributed system of sensors and devices in a small multidisciplinary Agile run team.• Drastically improved system reliability by spearheading the design and development of a closed-loop control system coded in C. The system replaced the legacy open-loop Labview control program with the addition of a Linux machine running multiple VMs to handle system delegation in a master/slave architecture.• Worked independently to write C APIs for five third-party devices for integration into the control program. Communication between subsystems was performed using Modbus, Ethernet and RS-232.• Lead the automation of data collection by implementing N12's RDBMS using Mariadb.
July 2014 - Dec. 2014	Meditech, Framingham MA <i>Data Repository Programmer, Internship</i> <ul style="list-style-type: none">• Increased usability of data for customers by assisting in the migration of data from proprietary data formats to equivalent MySQL tables as part of an Agile run team.• 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

Backend, Team: AmericaSCORES <ul style="list-style-type: none">• Developed the backend components for a web and mobile product created for a local NGO.• Key contributor in designing and implementing a RESTful API using Node, Express and MySQL.• Headed the integration of Auth0 for authentication and authorization purposes. Web Application, Team: Orator <ul style="list-style-type: none">• MakeBU Hackathon, 2nd Place.• Leveraged jQuery, AngularJS and various open source libraries to develop a web application aimed at offering constructive feedback for public speaking.	Senior Capstone, Team: Autonomous Drone <ul style="list-style-type: none">• Successfully 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 moving target at a fixed distance in 3-D space. Web Application, Personal: Weather Applet <ul style="list-style-type: none">• Implemented Google's Geolocation API and the ForecastIO API to develop a full stack forecasting applet.• Leveraged PHP, MySQL and JQuery to access and visualize current, past and future trends.
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Education

Jan. 2017	Northeastern University, Boston MA <i>Bachelor of Science in Computer Engineering with a minor in Computer Science</i> GPA: 3.76, <i>Magna Cum Laude</i> Eta Kappa Nu IEEE Honors Society, University Honors Program, Dean's Merit Scholarship Recipient Courses: Machine Learning • Algorithms • Object Oriented Design • Optimization Methods • Programming Languages • Computer Architecture • Computer Networks • Computer Security • Vision and Robotics • Software Development • Discrete Math • Differential Equations • Fundamentals of Computer Science • Engineering Problem Solving with C++. Clubs: NU Hacks, Wireless Club, Toastmasters International, NUTV Marketing Director.
June 2012	Palisades Charter High School, Los Angeles CA GPA: 4.02

Skills

Technical	<u>Languages</u> : High Proficiency in: Java, C/C++. <i>Working Proficiency in</i> : Javascript (Node/Express), CSS, Python, SQL. <u>Tools</u> : Git, Confluence, Jira, VMware, MySQL, Labview, OS X, Linux.
Presenting	<u>Toastmasters</u> : Active participant in both the Northeastern & Santa Monica chapters. <u>NUTV</u> : E-Board Marketing Director for the university's video production club. Executive Producer, director and writer for the Entertainment department. Host for the bi-annual award show.
Misc.	UK and US citizen, limited working fluency in Spanish, cyclist, comedy enthusiast.