Vikram Somu

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY (B.S. Computer Science)   *August 2011 – May 2015*
- **GPA: 3.78/4.00**
- Awards: Eagle Scout, Deans List, HOPE Scholarship, AP Scholar
- Relevant Courses: Intro to Database Systems, Mobile and Ubiquitous Computing, Design and Analysis of Algorithms, User Interface Design, System and Networks, Introduction to Artificial Intelligence, Machine Learning, Information Visualization

SKILLS

Programming: Java, JavaScript, Ruby, Python, SQL, C, PHP, Bash, C++, Scala, Groovy
Software Tools: Git and SVN, HTML5, CSS, Node.js, Rails, J2EE, Spring Framework, Jekyll, AngularJS, jQuery, D3.js, Bootstrap, Foundation, Chef, Puppet, Docker, Vagrant, PhantomJS, RSpec, Serverspec, JUnit, Selenium, Amazon Web Services, Visual Studio, Android, MongoDB, Jenkins, Gerrit
Languages: English (Bilingual)**,** Spanish (Limited Working), and Tamil (Bilingual)

WORK EXPERIENCE

***IBM (Watson Big Data Lab)*, Software Engineering Intern (DevOps team), Pittsburgh, PA**   *June 2014 – August 2014*
- Contributed to IBM's Chef environment by converting existing Puppet modules to Chef Cookbooks in order to help automate developer tool setup and infrastructure configuration; the team was in the process of moving away from Puppet.
- Used test-driven development to create a Chef error-reporting Rails web application to display infrastructure nodes with recent build failures and e-mail the appropriate people alerts with relevant information.
- Contributed to the team's efforts in utilizing Docker to make setting up lab-wide developer tools simple and writing Hubot plugins to provide the lab with useful information through IRC, such as infrastructure node status.

***Manheim Auctions* (Subsidiary of Cox Enterprises), Software Engineering Intern, Dunwoody, GA**   *May 2013-May 2014*
- Maintained a Ruby on Rails data visualization application that pushes real time car auction statistics from around the country onto an easy to read and interactive web-interface for company-wide use.
- Revamped a J2EE web application using Spring MVC Framework, Hibernate, and a MySQL database in order to help customer service personnel track problems that occur at physical car auction locations.
- Developed a paid time off tracking web application with Node.js and MongoDB to be used by several internal departments.

PROJECTS

***GT Registration Assistant* (gtcoursewatch.us)**: *School registration assistance system*   *Summer 2013-Present*
- Node.js web app featuring course opening notifications (Email/SMS), automated registration of users upon course opening (through PhantomJS), live chat using WebSockets, course stats data visualization through d3.js, and social media sharing.
- Single page, responsive design achieved through Bootstrap+AJAX; server hosted on Amazon EC2 using MongoDB and SSL

***Student Organization Manager*:** *Institutional organization management system*   *Spring 2014*
- Android application with accompanying Node.js web service and MySQL database hosted on Amazon EC2.
- Designed for Georgia Tech student organizations to centralize communication and other organization management activities.

***Maple Trainer*:** *Online game botting program*   *Summer 2013*
- Created a program in Visual Studio with a simple GUI within a DLL (which is injected into the game process at runtime) using C++ and x86 Assembly to bot a popular online game by using memory-editing techniques.
- Provided functionality including auto attacking, auto looting, auto potions, invincibility, and teleporting character to monsters

GT Port (Database Systems Course Project): *Provides student/faculty managerial services for a typical university*   *Fall 2012*
- Designed a complex SQL database by completing 1) EER Diagram 2) Relational Schema 3) SQL statements
- Wrote a web app using PHP/HTML and MySQL DB based on the database our group designed

EXTRACURRICULARS & LEADERSHIP

MOVE, Chair of the ACCESS Committee   *August 2012 – December 2013*
- Elected as chair of the ACCESS Committee for MOVE, which is a Georgia Tech community service organization focused on helping to improve the metro Atlanta area
- Managed a tutoring program dedicated to SAT, College essay and general admissions advice to high school students

Boy Scouts, Eagle Scout   *May 2004 – Present*
- Organized and carried out a service project to collect eyeglasses to give to the needy for my Eagle Scout project

INTERESTS

- Web development, technology, personal finance, alternative and electronic music, reading, and PC gaming