ROB LASELL

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EDUCATION

Tufts University – *Medford, MA*
· Master of Science in Computer Science, 2016 – GPA: 3.71
· Bachelor of Science in Biology, 2014 – GPA: 3.63

COURSES & PROJECTS

Relevant Courses

Computer Security, Programming Languages, Algorithms, Data Structures, Database Systems, Machine Structure and Assembly Language Programming, Computational Theory, Web Programming, Internet-Scale Distributed Systems, Data Visualization, Discrete Math

Example Projects

Titanic Visualization – www.roblasell.github.io/visualizations/titanic.html
· An interactive data visualization about the Titanic disaster, written in Java/JavaScript
· Redraws itself dynamically as the user filters and highlights parts of the dataset

File Copy
· Designed a custom packet protocol to transfer files and directories over TCP
· Implemented a system that used the protocol in C++/C
· Both protocol and system had to handle sockets and a file I/O API designed to introduce random errors into the copying process, all while guaranteeing correctness of copied files using hashing and end-to-end checking

EXPERIENCE

Tufts University CS Department – *Teaching Assistant* – Medford, MA – September 2014 - Present
· Tutored students in *Introduction to Computer Science*
· Provided individual instruction in data structures and programming practices
· Planned and held office hours

Tufts JumboCode – *Project Lead (Volunteer)* – Medford, MA – September 2015 - Present
· Designed a responsive web app for the DREAM mentoring program
· Managed the team of undergraduates who built the app

Epic Systems – *Software Development Intern* – Madison, WI – Summer 2015
· Developed an iOS app from scratch as part of a team of three interns
· Designed the front end collaboratively with the other interns
· Individually designed, built, managed, and interfaced with the back end of the app, including the SQLite database and Objective C infrastructure
· Improved the performance of the database and the app

SKILLS

Programming Languages

C++, C, Java, Objective C, Swift, Python, HTML/CSS, JavaScript, SQL (PostgreSQL, SQLite)

Technologies

Git/SVN, iOS, OSX, Linux, MongoDB, Heroku, Node.js, Processing