Ashley Custer

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EDUCATION

Boston University, College of Engineering, Boston, MA

anticipated Dec 2014

- Masters of Engineering, Computer Engineering (GPA: 3.8)
- L.E.A.P. Merit Scholarship (awarded Jan 2013), Masters of Engineering Merit Scholarship (awarded Sep 2014)

California Polytechnic State University, College of Science and Mathematics, San Luis Obispo, CA

June 2010

- Bachelor of Science in Biological Sciences (GPA: 3.2)
- Dean's List 2007 and 2008

TECHNICAL SKILLS

Programming languages and OS: Python, JavaScript, Java, C++, MATLAB, Verilog;

HTML5, CSS, JSON; OS X, Linux, Windows

Software: Microsoft Office Suite, Adobe, SolidWorks (CAD), Cytoscape and UCSF Chimera (Biological tools)

RELATED PROJECTS

•	Python and JavaScript: MBTA subway passenger entry and exit data visualization https://github.com/ashleycuster/mbta_viz	Jun 2014 — Aug 2014
•	C++: Programmed object-oriented <i>Gold Mining</i> game using C++	Oct 2013 – Dec 2013
•	Verilog: Coded debouncer/counter on FPGA linked to VGA display	Dec 2013 – Dec 2013
•	MATLAB: Programmed <i>Enigma Encrypting/Decrypting, DNA Mutation Detection</i> , and 3D Aircraft Acceleration projects	Sep 2012 — Dec 2012

PROFESSIONAL EXPERIENCE

Massachusetts Bay Transportation Authority, Boston, MA

Jun 2014 - Aug 2014

Technical Intern, Programmer

- Created dynamic visualization of MBTA subway entry and exit data using D3.js
- Developed experimental automation of subway delay alerts using prediction data

University of California, San Francisco, San Francisco, CA

Nov 2010 – Jul 2012

Analyst, Department of Bioengineering and Therapeutic Sciences

- Structure-Function Linkage Database
 - Developed generalized protocol to assign function to thousands of protein enzymes
 - Managed help email and handled queries from collaborators and external users
- Enzyme Function Initiative
 - O Co-coordinated four multi-institution conferences; Judged, co-organized annual poster session
- Patricia Babbitt's lab and Tanja Kortemme's lab
 - Reviewed grant applications, collaborated with investigators and finance teams, directed supply orders
 - Coordinated bioinformatics assignments and course website for School of Pharmacy students
 - Managed appointments of -30 personnel and arranged visa documentation for international postdocs

Petit Soleil Bed & Breakfast, San Luis Obispo, CA

Jul 2008 – Jul 2010

Charming French-inspired sixteen-room inn ranked "Best of Yelp"

Oversaw culinary responsibilities and customer relations, new employee training

PUBLICATIONS