

Ashley Custer

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TECHNICAL SKILLS

Javascript | Python | C++ | MATLAB | Java | Verilog | Intel Assembly
AngularJS | React | Gulp | D3 | Leaflet | JQuery | HTML5 | CSS3
OS X | Linux | Windows | Git | Axure | Eclipse | Microsoft Office Suite | Adobe

PROFESSIONAL EXPERIENCE

Booz Allen Hamilton, Washington, DC and remote Feb 2015 — present
Software Engineer, Predictive Intelligence Platform

- Designed and implemented a Leaflet-based map to display geocoded information from Elasticsearch
- Incorporated dynamic filtering of geocoded information from Elasticsearch based on user input

Software Engineer, Department of Labor, Benefits.gov

- Implemented new features and improved user interface in GovLoans.gov questionnaire
- Updated Benefits.gov, GovLoans.gov, and SSABest.benefits.gov user feedback questionnaires and incorporated analytics.usa.gov government web traffic tracking into these three sites

Software Engineer, Defense Logistics Agency, FedMall Analytics

- Developing web-based user interface to query and filter Elasticsearch data and display results
- Built wireframe of FedMall Analytics application to demonstrate design plan to client

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

- Developed generalized protocol to assign function to protein enzymes in Structure-Function Linkage Database
- Co-coordinated four multi-institution Enzyme Function Initiative conferences
- 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

EDUCATION

Boston University, College of Engineering, Boston, MA Jan 2015

- Masters of Engineering, Computer Engineering (GPA: 3.7)
- 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

PUBLICATIONS

Akiva E, et al. "The Structure-Function Linkage Database," *Nucleic Acids Research*. 2014 Jan, 42(1):D521-30

Leung W, et al. "Drosophila muller elements maintain a distinct set of genomic properties over 40 million years of evolution," *G3*. 2015 Mar, 5(5):719-40