JUSTIN CHAVEZ

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EDUCATION

University of Maryland, Baltimore County (UMBC) Baltimore, MD
B.S., Computer Science GPA: 3.82/4.00 Expected May 2017
Minor in Mathematics, Minor in Bioinformatics and Computational Biology

Relevant Coursework:
- Data Structures
- Object Oriented Programming
- Programming Languages
- Statistics for Engineers
- Assembly
- Introduction to Artificial Intelligence
- Discrete Mathematics

SKILLS

Programming: (Proficient): Python, C++ ,R,
(Prior Experience): MATLAB, D3.js, HTML, CSS, JavaScript

Software: (Proficient): UNIX, Emacs, Spyder, Brackets, Git
(Prior Experience): Firebase API, Autodesk

RESEARCH EXPERIENCE

Summer Research Intern **Broad Institute of MIT and Harvard** Summer 2015
Nine week summer research internship within the Regev Lab, a large biomedical research group
- Parsed 980 breast cancer patient samples through Python NumPy arrays and utilized matplotlib to display statistics
- Utilized R to implement a Fisher's exact test on breast cancer data to predict genetic interactions
- Designed with Autodesk and 3-D printed a holder for a homemade Arduino spectrophotometer

Summer Research Intern **University of Maryland, School of Medicine** Summer 2014
Initiated a project to program and implement a system for returning aggregate results to Biobank participants
- Condensed 112 pages of research publications into an annotated bibliography and spreadsheet highlighting relevant information for the Biobank project
- Created and administered a 43-question survey for feedback about a Hospital startup project
- Supported purpose of each survey question with the previously created research publication spreadsheet
- Presented final research results in 3 oral settings and 2 poster forms

PROJECTS

Developer **Lecture Learning**
Application that utilizes the Firebase API to improve the classroom or workshop experience
- Integrated the Firebase API into self-built HTML websites to function as a frontend for the application's interface
- Utilized the Firebase Real Time Database to instantly inform and record student's questions for the instructor
- Constructed a timeline using D3.js to showcase where students had the most questions for lecture improvement

Project manager/Developer **PaLT (The Path Least Taken)**
Application that crowd sources unique locations in nature to encourage conservation of the environment
- Coordinated a team of three to develop the application during the Bitcamp 2015 hackathon
- Developed Python code to script and parse location information from Google Sheets
- Created a Google Chrome extension for a frontend to enter location information and display other entered locations

Founder **Student Government Association (SGA) Initiative Tracker**
Project started to help the SGA members organize their initiatives and bring more transparency to their projects
- Oversaw planning and development of a prototyped initiative tracker during Hack UMBC 2014
- Proposed and received a funding of $1,400 to develop the application
- Currently overseeing testing of the initiative tracker on a sample of SGA members for feedback

LEADERSHIP EXPERIENCE

Peer Mentor, Computer Science Fall 2015
Team Captain, Recreational Soccer Summer 2014
Volunteer Coach, Walter Johnson High School Science Olympiad Fall 2013-Present

HONORS

- Meyerhoff Scholar
- National Security Agency (NSA) Scholar
- Phi Kappa Phi Honor Society
- Golden Key International Honor Society