CLARENCE MAH

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EDUCATION

Bioengineering: Bioinformatics
UC San Diego, La Jolla, CA
Expected 2016

Coursework

- ☐ Molecular Sequence Analysis
- ☐ Machine Learning Methods
- ☐ Big Data Analysis in Computational Molecular Biology
- ☐ Genomic Technologies
- ☐ Genetics & Molecular Biology
- ☐ Probability and Statistics
- ☐ Algorithms and Systems Analytics
- ☐ Advanced Data Structures
- ☐ Object-Oriented Programming

PRESENTATIONS

- ☐ Determining Transcriptional Regulators of Peroxisome Biogenesis Via In Silico Analysis. Poster presentation at the Biomedical Engineering Society Annual Meeting, October 2015

SKILLS

Programming Languages

- ☐ Java
- ☐ Python
- ☐ MATLAB
- ☐ BASH

Bioinformatics

- ☐ Sequence Alignments, Assembly, Rearrangements
- ☐ Tuxedo Suite
- ☐ HPC Clusters

Web Design

- ☐ HTML5
- ☐ CSS3
- ☐ JavaScript
- ☐ Node.js
- ☐ Bootstrap
- ☐ Gulp
- ☐ Responsive Design

EXPERIENCE

Undergraduate Researcher 2014 – present

Laboratory of Computational Genomics - Scripps Institution of Oceanography, La Jolla, CA

Performed DNA motif enrichment analysis in collaboration with postdoctoral researcher using open source Next Generation Sequencing bioinformatics tools in conjunction with custom scripts.

Undergraduate Researcher 2014 – present

Translational Neuroengineering Lab - UC San Diego, La Jolla, CA

Assisted in creation of behavioral study to design and optimize an experimental framework for a neurally controlled speech prosthesis.

Designed/optimized a visual interface for a neurally controlled speech prosthesis.

Proposed implementation of Microsoft Kinect sensor in clinical environment for data collection of patient movement/environment interaction.

Lead Programmer June 2015 – present

DangoReader - Android Application

Lead team of 3 to develop an Android application for users to read, organize, and track 10,000's of Japanese comic books. Designed user interface and implemented backend for JSON parsing and database mapping.

Developed website using Bootstrap, Gulp, LESS, and jQuery for app distribution.

Quality Assurance/Quality Control Intern Jun. - Aug. 2012

Micropoint Biotechnologies Inc. - Santa Clara, CA

Responsible for creating/managing lab safety and regulations projects including inventories, and maintaining FDA standards for lab equipment.

Assisted in lab testing and data analysis.

LEADERSHIP

Internal Vice President 2015 - Present

Undergraduate Bioinformatics Club - UC San Diego, La Jolla, CA

Coordinating team of 8 students to connect the undergraduate bioinformatics community with graduate students and professors by hosting annual Research Expos, workshops and industry networking events.

Project Team Lead 2014 - 2015

Biomedical Engineering Society - UC San Diego, La Jolla, CA

Created research opportunities for undergraduates and engineering project teams by providing advising, funding, recruitment, and lab space, to apply collaborative and technical skills in engineering design and project management.

Generated 15 undergraduate research positions and sponsored 3 student teams to compete in national BMEidea/BMEstart competition sponsored by VentureWell.

Webmaster 2013 - 2014

Biomedical Engineering Society - UC San Diego, La Jolla, CA

Redesigned website to facilitate better communication and accessibility for members and prospective industry sponsors.

E4U Video Team Lead Jan. - Apr. 2014

Biomedical Engineering Society - UC San Diego, La Jolla, CA

Winner of People's Choice Award for $5,000 prize.

Led student team to create a video for the National Academy of Engineering's 50th Anniversary Video Contest promoting innovations in engineering from the past, present, and future.