Ian Marshall

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ENTRY-LEVEL BIOENGINEERING POSITION

Recent graduate of UC Berkeley with experience in both bioengineering and computer science with a concentration in biomedical devices. Seeking an entry-level position in my field of study that builds upon and utilizes my collegiate, internship and community experiences and activities.

EDUCATION

UNIVERSITY OF CALIFORNIA • Berkeley, CA (May 2017)
Bachelor of Science (BS) in Bioengineering/Biomedical Engineering with minor in Computer Science

RESEARCH EXPERIENCE

Helen Wills Neuroscience Institute • Berkeley, CA • Jun.-Dec. 2015
Mission: To deepen our understanding of the brain through original research, and to serve society by generating and disseminating knowledge and technology
Banks' Lab Intern: Worked with graduate students and professor Martin Banks to help develop an experiment studying the natural statistics of blur in the visual field:
• Wrote experiment in MATLAB using the Psychtoolbox package
• Assisted in administering the experiment

TECHNICAL SKILLS

Programming experience in Java, Python, C++ and MATLAB
Experience with COMSOL, SOLIDWORKS, AutoCAD, NI Multisim, NI LabVIEW, Arduino, Git
PCR, SDS-PAGE, Western Blotting, Immunofluorescence, Photolithography, Mammalian Cell Culture
Microsoft Office (Word, PowerPoint, Excel)

HONORS & LEADERSHIP ACTIVITIES

Eagle Scout with demonstrated project management skills, Order of the Arrow National Honor Society
Secretary, Delta Sigma Phi Fraternity, Hilgard Chapter – Leadership training in recruitment and communications

ADDITIONAL EXPERIENCE

Catering Delivery • **Café Sud** • Berkeley, CA (Jun.-Nov. 2016)
Delivered and staged hot catered food to various tech companies throughout the Bay Area

Associate Engineer • **Veracity Traffic Group** • Oceanside, CA (Summers, 2013-2014)
Gathered data on commuter traffic patterns through major intersections on contract for City of Carlsbad, CA.

RELEVANT COURSEWORK

BioE 115: Cell Biology for Engineers – Worked in a group of four students to perform an original final research project evaluating the fitness of C2C12 cells as experimental analog to wild type myoblasts.

CS 189: Introduction to Machine Learning – Worked on assignments throughout the semester implementing machine learning algorithms including SVMs, LDA, QDA, regression, decision trees and random forests, and neural networks from scratch in Python. Worked with CIFAR-10, MNIST, and other datasets and performed preprocessing on data.

CS 184: Foundations of Computer Graphics – For my final project I worked with a partner to extend a path tracer made in a previous project to incorporate bidirectional path tracing and progressive photon mapping.