GAVIN MAK

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EDUCATION

University of California, Berkeley | Dec 2019　　　　　　　　　　　**GPA: 3.86 Overall, 3.94 Major**

　Bachelor of Arts: Computer Science, Statistics (Double Major)

Relevant Coursework: Data Structures (CS61B), Efficient Structures and Intractable Problems (CS170), Discrete Mathematics and Probability Theory (CS70), Structure and Interpretation of Computer Programs (CS61A), Introduction to Artificial Intelligence (CS188), Concepts in Computing with Data (STAT133), Concepts of Probability (STAT134)

Honors: Upsilon Pi Epsilon Honor Society (Top 1/3 of CS majors), National AP Scholar

PROFESSIONAL EXPERIENCE

BridgeUSA　　　　　　　　　　　　　　　　　　　　　　　　　　　　Berkeley, CA
Chief Technology Officer　　　　　　　　　　　　　　　　　　　　　Oct 2016 – Present
- § Designed, coded, and managed Berkeley chapter's website and national organization's web page
- § Assisted and optimized day-to-day technological operations within meetings and sponsored public discussions
- § Currently developing a content management system that allows staff writers to publish, edit, and display articles

UC Berkeley EECS　　　　　　　　　　　　　　　　　　　　　　　　Berkeley, CA
CS61A Course Tutor　　　　　　　　　　　　　　　　　　　　　　　Aug 2017 – Dec 2017
- § Worked alongside students and assisted with the study and preparation for coursework and examinations
- § Ran two weekly office hours to help with introductory computer science topics in Python, SQL, and Scheme
- § Developed and graded course examinations, projects, lab assignments, and homework used by 2000+ students

Computer Science Mentors　　　　　　　　　　　　　　　　　　　　Berkeley, CA
Junior CS61A Mentor　　　　　　　　　　　　　　　　　　　　　　Aug 2017 – Dec 2017
- § Led two weekly individual and group mentoring sessions to provide extra help with material in CS61A
- § Guided students through weekly Computer Science Mentors worksheets and assisted in the completion of coursework

Stowk　　　　　　　　　　　　　　　　　　　　　　　　　　　　　Berkeley, CA
Software Engineering Intern　　　　　　　　　　　　　　　　　　　　May 2017 – Aug 2017
- § Developed a front end interface for the Stowk mobile application using React Native and Android Studio
- § Debugged and resolved several persistent issues regarding the Android user interface and Firebase SMS authentication

SELECTED PROJECTS

Personal Website　　　　　　　　　　　　　　　　　　　　　　　Sep 2016 - Present
JavaScript, Bootstrap, HTML5/CSS
- § Originally designed and developed using vanilla HTML5/CSS and JavaScript but redesigned to implement Bootstrap 4
- § Currently creating content to provide further resources for CS61A students such as exam reviews and practice problems

Cut It Out　　　　　　　　　　　　　　　　　　　　　　　　　　　Aug 2017
Python, Flask, HTML5/CSS
- § Uses Google Cloud Platform's machine learning and natural language processing API to summarize text, articles and essays
- § Analyzes paragraphs to find relevance to the main message and includes phrases most pertinent to the body of the text
- § Includes a setting to customize the amount of text to be cut out and minimum relevance threshold for each phrase

Thought Bot　　　　　　　　　　　　　　　　　　　　　　　　　　Feb 2017
Python, JavaScript
- § A Twitter bot that uses a LSTM recurrent neural network to generate novel phrases based on Reddit submissions
- § Entertaining and notable expressions are selected and tweeted automatically using Twitter's API

Ball and Cup　　　　　　　　　　　　　　　　　　　　　　　　　　Oct 2016
Java, XML
- § A realistic simulation of the ball and cup game on Android built with a custom physics game engine and minimalist GUI
- § Accurately models and implements string tension, collision detection, catenary rope physics, and air friction

LANGUAGES & TECHNOLOGIES

Languages:　　Python, Java, SQL, JavaScript, jQuery, HTML5/CSS, R, XML, C++, LaTeX, Scheme
Technologies:　React Native, Bootstrap, AngularJS, MongoDB, Git, UNIX, GIMP/Photoshop, Flask, Firebase
Interests:　　　Street Photography, Hip-hop Dance, Concerts, Traveling, Producing Music, Game of Thrones