Joey Hejna

Berkeley / Palo Alto CA | 650-404-7775 | jhejna@berkeley.edu | github.com/jhejna | linkedin.com/in/joeyhejna

Education

UNIVERSITY OF CALIFORNIA, BERKELEY | 4.0 GPA   **CLASS OF 2021**

Major: B.S. in Electrical Engineering and Computer Science

· Relevant coursework: Programming Abstractions, Linear Algebra, Information Systems, Data Structures & Algorithms

STANFORD UNIVERSITY | 4.0 GPA   **SUMMER 2016**

· Relevant Coursework: Client-side Internet Technologies, Differential Equations for Engineers

Professional Experience

RESEARCH ASSISTANT | STANFORD UNIVERSITY   **SUMMER 2016**

· Utilized Python's Natural Language Toolkit to parse and clean 1.3 Terabytes of Corporate 10K and 10Q filings.

· Formed bigram datasets uses to predict corporate donation tendencies based on language

· Created a web-based visualizer using JavaScript, SQL, and Google Charts API to allow researchers to view changes in word usage frequency over time, filtered by industry or location.

HEAD SAILING INSTRUCTOR | SHORELINE LAKE   **2015-2017**

· Directed staff of twelve employees to run effective youth summer camps and adult workshops for tech firms.

Personal Experience, Activities, and Volunteer Work

ANDORID DEVELOPER | PROJECT MANAGER | MOBILE DEVELOPERS OF BERKELEY   **2017**

· Developed Streamline – a social mobile application for sharing music using the Spotify API. Designed layout for app screens and interfaced with API for token authentication and streaming. Designed and implemented Firebase database schema for data / post storage for each user. The App is downloadable on the google play store.

· Project Manager for Streamline – lead team of two other android developers. Guided the ideation process, implementation of features, and organized deliverables utilizing principles of agile development.

OPENCV FACE TRACKING AND EMOTION DETECTION | INDEPENDENT   **FALL 2017**

· Used OpenCV in python 3 to implement facial recognition and tracking using Haar Cascades filters.

· Created an emotion recognition neural net using the Yale Faces dataset in to detect the emotion of a face in video.

CAPTAIN | FIRST ROBOTICS TEAM 114   **2015-2017**

· Lead team of over thirty students through the build process of two full sized competition robots.

· Designed more than two-hundred solid-works components and fabricated on mill, lathe, and 3D printers

· Built drive system with independently rotating wheels in addition to pneumatic and flywheel systems

· Assisted in creation of vision targeting system with NVIDA Jetson, OpenCV, and C++

· Spearheaded championship robot designs, winning 1st place at the 2017 Ventura Robotics competition and competing at the 2017 First Robotics Championship and 2016 Quarterfinals at Silicon Valley Robotics comp.

CAPTAIN, VICE PRESIDENT | MVLA SPEECH AND DEBATE   **2015-2017**

· Competed nationally, ranking 42nd in CA, one of two-hundred to compete at 2016 UK Tournament of Champions, 1st speaker awards at UOP and La Costa Invitational tournaments of over a hundred and fifty competitors.

· Head of middle school outreach, taught and designed curriculum for debate classes across two school districts.

WEB DEVELOPMENT   **2015-PRESENT**

· Created modern personal / portfolio website **joeyhejna.com** utilizing Bootstrap, jQuery, SCSS technologies.

· Web Manager for Beyond Fistula - Created and maintained WordPress website for non-profit providing aid to women in Kenya post fistula surgery from 2015 to 2016

Skills & Distinctions

PROGRAMMING

· Java, Python, JavaScript, HTML, CSS, Android Studio, Natural Language Processing, Unix, R, PHP, C++

ENGINEERING

· SolidWorks 3D CAD, mill lathe 3D printer & laser cutter fabrication, Matlab, diff eq, multivariable calc, stats

ACADEMIC DISTINCTIONS

· UC Berkeley Regents and Chancellors Scholarship, 2017 Rambus Innovator of the Future Scholarship