Evan Beneroff

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Education

California Polytechnic State University, San Luis Obispo **Completed March 2018**

Bachelor of Science in **Computer Engineering** **GPA 3.31**

Dean's List W15, F16, W17, S17, W18, President's List 2016-2017

Experience

Mac Platform Engineer at Apple **April 2018 to Present**

- macOS EFI & SMC development and testing

Digital Technology Leadership Intern for GE Digital **June 2017 to September 2017**

- Automated regression testing for CICD pipeline of Predix Industrial IoT Platform API
- Designed and developed intuitive and interactive UI for executing commands to IoT edge devices
- Computer vision algorithm for car collision detection and integration with GE's CityIQ API

Software Engineering Intern for Kohl's **June 2016 to September 2016**

- E-commerce microservice health monitor, built and displayed to minimize downtime
- CICD dashboard that displays history and analytics of GitHub commits and continuous integration test runs

Firmware Verification Engineer Co-Op for St. Jude Medical **January 2016 to June 2016**

- Requirements based firmware verification and validation for implantable cardiac monitoring device
- Battery measurement verification for voltage measurement accuracy and limiting of dependent features
- Automated calibration procedures for electromyography, R-wave detection, and battery measurement

Projects

Human-Computer Interaction Through Eye-Gaze Tracking and Support Vector Machine Classification

- Allows operation of a computer using only eye movement and facial gesture detection, with realtime training
- SVM achieved 90% accuracy for 13 point detection, greater accuracy than CNN use in published literature

streetSmart - Predix Hackathon 1st place

- Car collision and fire detection with EMS Notification utilizing Twilio API and GE websocket camera stream
- Leverages computer vision (background subtraction, blob detection) to detect when a car crash or fire occurs

Fake News Analytics - UCSB Hackathon winner

- Web application using MLP neural network for predicting authenticity of news articles

Qualifications

Engineering Skills

- Proficient in: C, Python, JavaScript/HTML/CSS, Unix/Bash
- Python Frameworks: OpenCV, SciKit Learn, NumPy, SciPy, PyBrain
- JavaScript Frameworks: React.js, Polymer.js, JQuery, Node.js, Express.js, Web Component Tester (Mocha)

Relevant Coursework

- CPE 101, 102, 103 — Java, Object Oriented Programming, data structures, algorithm analysis
- CPE 233, 315, 329 — Digital design, processor and memory modeling & architecture, microcontrollers
- CPE 357, 453, 471 — Systems programming, memory management, operating systems, graphics
- EE 212, 228, 306, 509 — AC/DC circuit analysis, signal processing, semiconductors, machine learning