

Andrew Pang

andrewpang.org ❖ andrew.y.pang@gmail.com ❖ (626) 376-1132 ❖ San Jose, CA

PROFILE

Hard-working recent college graduate with a B.A. in Computational Mathematics and a Minor in Computer Science. Self-motivated, with strong problem-solving and organization skills. Demonstrated adaptability and leadership experience in various team projects.

RELEVANT EXPERIENCE

Engineering and Science, Osaka University

Osaka, Japan

Summer Lab Researcher at Hosoda Laboratory

June 2018 – August 2018

- Utilized microcontrollers to develop control signals, implemented control algorithms, and reduced the total cost of the project by 50%.
- Evaluated current or emerging technologies to consider factors such as cost, portability, compatibility, or usability.
- Wrote detailed functional specifications that document the hardware development process, the design specifications, and the installation instructions.

UCSC Campus Natural Reserve

Santa Cruz, CA

Data Collector at Forest Ecology Research Plot

September 2017 – December 2017

- Coordinated with a team of six to demonstrate the importance of proper standardized protocols when collecting data and organized a database of over 28,000 entries to help support the development and maintenance of long-term ecological monitoring of the forest.

GIS Mapping

January 2017 – March 2017

- Collaborated with a small team to collect forest data to produce or update overlay maps to show information boundaries, water locations, or topographic features on various base maps while ensuring accuracy/identifying and marking errors and making corrections by using geographic information systems(ArcGIS) to establish short-term and long-term plans for forest conservation.

NOTABLE PROJECTS

Machine Learning Movie Review Classifier

- Evaluate and classify the sentiment of movie reviews using 100,000+ textual phrases. Techniques implemented include Bag of Words and SVM. Developed with Python, SciKit-Learn, and NLTK.

Real Time California Wind Map

- A map of real-time wind patterns over California. Developed with Google Maps JavaScript API, OpenWeatherMap API, HTML and CSS.

SKILLS & MORE

Languages: HTML; CSS/SCSS; JavaScript: Node.js, Express.js; Python: SciKit Learn; C++; Java; SQL

Software/Tools: Git; MongoDB; Photoshop; Sketch; VS Code; Eclipse; ArcGIS

Community Involvement: Computer Instructor; Bookstore Volunteer/Librarian

EDUCATION

University of California, Santa Cruz

Santa Cruz, CA

BA, Major in Computational Mathematics, Minor in Computer Science. GPA: 3.2

March, 2019

Notable Coursework: Machine Learning; Algorithms & Abstract Data Types; Database Systems; Data Visualization; Computer Graphics; Number Theory; Probability Theory; Complex Analysis