

KEVIN MACH

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EDUCATION

GPA 3.39

Expected June 2019

Notable Coursework

CSE 100

CSE 101

CSE 105

CSE 110

CSE 120

B.S. Mathematics-Computer Science – University of California, San Diego Minoring in Business

Advanced Data Structures

Design & Analysis of Algorithms

Theory of Computability

Software Engineering

Principles of Operating Systems

EXPERIENCE

Raytheon

SW Engineering Intern

Jun 2018 – Sep 2018

- Completed 12 software change requirements on a ground command control software system for a UAV sensor using Java, JavaFX, HTML, and CSS
- Performed tool analysis on a GUI automation testing software by writing scripts for basic user functions on the UAV software
- Integrated the GUI automation testing software into a Jenkins-CI build pipeline for the UAV software to conduct automated tests on a slave machine

theDevMasters

Intern/Student

Jun 2017 – Sep 2017

- Utilized modules like Pandas, NumPy, and Matplotlib for data cleaning/analysis and scikit-learn for machine learning and model creation
 - Operated with regression algorithms such as Multivariate Regression, Logistic Regression, etc., and classification algorithms such as Naïve Bayes, Random Forest, etc. to build predictive models
 - Introduced to technologies like OpenCV for item detection, Apache Spark aligned with Hadoop to handle Big Data, and Natural Language Processing
 - Participated in Kaggle competitions such as “Titanic” and “House Prices: Advanced Regression Techniques”, placing in the top 15th percentile
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PROJECTS

Ripple

Jan 2017- Feb 2017

Collaborative Song Queue App-Android, JavaScript, HTML, CSS

- A dual platform Android and web application that allows seamless collaboration onto a single song queue where users can search for and request songs to be added and a single individual in charge of the queue can choose to accept or reject the requests
- Utilized Firebase as the database for users and playlists, and relied on a MVC architecture for a separation of concerns to provide a better user experience

Huffman Trees

Nov 2016

Compression and Decompression of files using Huffman Trees-C++

- Extended basic I/O functionality of C++ with bitwise operations to support actual file compression and decompression
 - Built a Huffman Tree and compression algorithm for secure file encoding
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TECH SKILLS

Languages

• Python • Java • C/C++ • HTML • CSS • JavaScript

Tools

• UNIX • Windows • Git

LEADERSHIP

VP of Finance

Nov 2016 – Present

Beta Theta Pi

- Creating quarterly budgets, presenting weekly reports, and handling all collections and expenditures of revenue

Second Year Senator

May 2016 – April 2017

Sixth College Student Council

- Administrating projects and events to assist student life on campus