

Alex Thomas

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EDUCATION

University of California, Riverside

June 2020

Major: Bachelor of Science, Computer Science

GPA: 3.76, Cum Laude, Chancellor's Honor List

Coursework: Data Structures/Algorithms, Machine Learning/Data Mining, A.I., Embedded Systems, O.S., DBMS

SKILLS

C/C#/C++, Python, NodeJS, Java, MATLAB, React, Spring, PostgreSQL, MongoDB, Git, Agile

EXPERIENCE

Freelancing: Twitter Search Engine – Lead Programmer, *Fremont, CA*

Apr 2020-Sep 2020

- Explored information retrieval theory through full stack scalable tweet searcher (**9 million** tweets)
- Integrated Twitter 4j API to implement a Twitter Crawler that stored **2 GB** of tweet data in JSON files
- Encapsulated Lucene index and query searcher within Spring framework to boost searching

Freelancing: User Location Visualization Tool – Lead Programmer, *Fremont, CA*

Jul 2020-Aug 2020

- Developed a full stack web application showing real time user engagement for a wearable product
- Designed sleek UI in React for user registration/login connected to MongoDB collection of user data
- Plotted user location and activity data on US Map by merging Google Cloud API functionality

Krazy Kitchen Industries: Senior Design Project – Scrum Master, *Riverside, CA*

Mar 2020-Jun 2020

- Mobilized weekly Agile sprints in a team of five and delegated tasks to create co-op video game
 - Managed scrum meetings, sprint backlog, and burndown chart
- Pioneered level design and gameplay functionality

Knowles Intelligent Audio – Engineering Intern, *Mountain View, CA*

Jun 2019-Sep 2019

- Coordinated with team in Beijing to evaluate device wakeup audio categories
- Streamlined audio lab testing with image to string comparison of benchmark device wakeup results
- Orchestrated data collection project to test Chelsea circuit board with virtual assistant training data
 - (30 subjects) with 10 iterations of 9 keyword phrases
- Developed **Audio Parser** – split script for algorithm training
 - Diagnosed bottlenecks in company splitting software
 - Optimized calculations to find utterance instances with Audio Segment (Python) library
 - Speedup of **1.3x** upon existing Knowles Test Team code

Camp Galileo – Team Leader, *Fremont, CA*

Jun 2018-Aug 2018

- Applied passion for teaching to build a welcoming environment that served as a gateway for future STEM focuses
- Translated engineering complexities into low level understandable problems mentoring a path to a solution

UCR Hackathon: Box Bot – Software Manager, *Riverside, CA*

Nov 2017

- Devised movement control for a motorized car using the Arduino IDE
- **Award: Best Hardware Hack**

LEADERSHIP IN EXTRACURRICULARS

UCR Honors Capstone Research Project: The Chai Chai Talk – Project Leader, *Riverside, CA*

Jan 2018-Jun 2020

- Orchestrated podcast series from interviews exploring the link between music and immigrant identity

UCR Afsana: South Asian Dance Team – Dance Lead, *Riverside, CA*

Oct 2017-Mar 2019

- Recruited student dancers and motivated them to do their best
- Led team to national competitions and achieved top 20 status