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, React, Agile, Java, SQL, Git, MongoDB, MATLAB

RELEVANT EXPERIENCE

Knowles Intelligent Audio – Engineering Intern, *Mountain View, CA*   Jun 2019–Sep 2019

- Designed intake software to categorize data of pre-processed device wakeup audio from team in Beijing
- Set up audio lab testing on benchmark device wakeup with image to string comparison for test results
- Managed data collection project to test Chelsea circuit board with virtual assistant training data (30 subjects)
- Implemented visual verification of results with plotting libraries and stored results in SQL database
- Attended scrum meetings and operated in a company undergoing vertical integration

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 leading to development of a solution

PROJECTS

User Location Visualization Tool: Full Stack Web Application   Jul 2020–Aug 2020

- Developed user registration interface with client access to user activity and geolocation
- Mentorship with emphasis on Agile Development – User stories, Standups, Sprints
- Project Pipeline: Back End – NodeJS, Front End – React, User Model – MongoDB, Google Cloud APIs

Krazy Kitchen: Senior Design Project Unity Engine Video Game with Netcode   Mar 2020–Jun 2020

- Co-op cooking video game – Unity Engine, C#, Netcode Software
- **Scrum Master** - Managed weekly Agile sprints in a team of five (Scrum Meetings, Sprint Backlog, Burndown Chart)

MiniJava Compiler: Java to MIPS   Jan 2020–Mar 2020

- Team of 2 Design Project – Developed compiler for subset of Java language
- Used compiler methodologies to type check, build a symbol table, and compile code

Audio Parser: Split script for Algorithm Training at Knowles Intelligent Audio   Sep 2019

- 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

Box Bot: RC Car Project at UCR Hackathon   Nov 2017
- Used Arduino IDE to build motorized car that was controlled by personal Android application
- **Award: Best Hardware Hack**

EXTRACURRICULARS

UCR Honors Capstone Project: The Chai Chai Talk   Jan 2018–Jun 2020

- Orchestrated podcast series to explore the link between music and immigrant American identity

UCR Afsana: South Asian Dance Team – Dance Lead   Oct 2017–Mar 2019