Alex Thomas

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EDUCATION

University of California, Riverside   June 2020
Degree: 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, Android, MATLAB, React, Flask, Spring, Lucene, PostgreSQL, MongoDB, Git, Agile

EXPERIENCE

Data Kiln Inc. – Engineering Intern**,** *Work from Home*   Oct 2020-Present
- Analyzed data engineering pipeline: Deployment - AWS, ETL - Matillion, Data Warehousing - Snowflake
- Enhanced scalable profiling of data held in Snowflake Warehouse with Flask web application

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 efficiently Crawl Twitter across network of multiple systems
- 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
    o 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
    o (30 subjects) with 10 iterations of 9 keyword phrases
- Developed **Audio Parser –** split script for algorithm training
    o Diagnosed bottlenecks in company splitting software
    o Optimized calculations to find utterance instances with Audio Segment (Python) library
    o Speedup of **1.3x** upon existing Knowles Test Team code

Camp Galileo – Team Leader, *Fremont, CA*   Jun 2018–Aug 2018
- Applied passion for teaching and mentoring to build a team of future engineers
    o Established a welcoming environment that served as a gateway for future STEM focuses
- Translated engineering complexities into low level 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 led them to national competitions (**Top 20 Nationally)**