

Alex Thomas



San Francisco, CA



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TECHNICAL SKILLS

Expertise – Full Stack Web Development, Infrastructure Design, Data Analytics, Framework Engineering, Android UI/UX, AI, ML

Development Practices – Agile, Scrum, Continuous Integration/Deployment, DevOps, Data Pipelining/Mining, XFN Collaboration, DBMS

Libraries – React, Node.js, Angular, GraphQL, Dataswarm, Hive, Postman, Google Cloud APIs, jQuery, AWS, REST, Jest, Git, Mercurial

Languages – Javascript, Typescript, Python, Java, SQL, Hack, PHP, Kotlin(Android), C++, C#, C, Go

WORK EXPERIENCE

Meta (Facebook): CW from Sigma Connectivity Inc. – Full-Stack Web Developer II, *Burlingame, CA*

Jan 2021 – Present

- Launched “Dogfooding Hub” web product as part of Reality Labs (RL) Dev Tool Team in Q1 2024 utilizing React, GraphQL, and Hack
 - Led the development of the program enrollment feature, creating an intuitive waitlist system with custom eligibility attributes
 - Enhanced device redistribution by automating reassignment of under-tested devices, replacing a manual spreadsheet-based process
 - Streamlined the dogfooding process and also increased program enrollment by **15%** in 2024 alone
- Identified need for more granular data on Sandcastle job lifecycle to optimize the RL continuous integration system
 - Built MySQL and Python-scripted Dataswarm pipelines to recursively map and capture job dependency, queue, and execution time
 - Created “Perceived Queue Time” metric to identify gaps in CI idle time and was adopted **Meta-wide** following XFN collaboration
- Devised a solution for enabling continuous testing of 3rd party apps on Jest E2E framework, previously blocked by test time constraints
 - Developed a Device State feature in TypeScript, leveraging Android Snapshotting to cache and reuse device states after OOB setup
 - This solution cut test runtime by **70%**, saving **~185** weekly lab hours, unlocking 3rd party app continuous testing under Jest E2E
- Led full-cycle development of QFIL feature within Maui Product using Node.js, Python, and PHP for efficient device recovery
 - Streamlined firmware restoration with Qualcomm/Android APIs, significantly reducing latency and enhancing developer efficiency
 - Initially designed for the Oculus universe, QFIL is now supported for all Meta devices and has aided in device recovery **~10K** times
- Spearheaded Android/Kotlin development for Portal Device Accessibility, addressing critical need for ADA compliance
 - Specialized in this underserved area by leading specific functionality improvements within Calling’s Talkback feature
 - Enhanced accessibility for 4 production models by Q1 2021’s branch cut, laying groundwork for further Android Accessibility API work

Proterra – Frontend Web Developer, *Burlingame, CA*

Nov 2020 – Dec 2020

- Deployed a jQuery-based component in the APEX 2020 portal to standardize product information using generated tooltips

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

Jun 2019 – Sep 2019

- Optimized Audio Parser with speedup of **1.3x** to then use in Chelsea Board Virtual Training with Data Collection over **2700 files**

Camp Galileo – STEM Camp Counselor, *Fremont, CA*

Jun 2018 – Aug 2018

- Taught and lead group of 30 kids (8-12) in STEM activities, building their engineering foundations for the future

PROJECTS

Dream Team Transfers – React, Python, PouchDB

Oct 2023 – Feb 2024

- Engineered a website for users to engage in a Soccer Transfer Window, facilitating the buying and selling of up to **5023** players
- Leveraged real-world player data to create an immersive marketplace, allowing users to easily select their lineup and build their squad

Twitter Search Engine – Angular, Spring, Node.js, Lucene, Twitter Dev API, Twitter 4j

Apr 2021 – Jun 2021

- Designed a search engine capable of efficiently searching across **~9 million** tweets addressing challenge of large-scale data handling
- Integrated Lucene index on data crawled by Twitter 4j to enhance search efficiency and accuracy, embedding results on Angular frontend

User Engagement Map – React, Node.js, MongoDB, Postman, Google Cloud APIs

Jul 2020 – Sep 2020

- Developed a web application capturing real time user engagement and plotting it using Google Cloud API for a wearable product
- Implemented secure user registration and data transmission, utilizing encryption and MongoDB for enhanced data safety

The Chai Chai Talk – UCR Honors Capstone Research Project Submission

Jan 2018 – Jun 2020

- Managed end-to-end podcast series of interviews exploring the intersection of music and identity for Immigrant Americans

Box Bot: UCR Citrus Hack Submission – Arduino IDE, Bluetooth Controls, C#

Nov 2017

- **Best Hardware Hack Award** for motorized car controlled by a Bluetooth Android App and programmed on Arduino IDE

EDUCATION

B.S. in Computer Science – University of California, *Riverside, CA*

Aug 2016 – Jun 2020

3.76 GPA | Cum Laude | Chancellor’s Honor List | 2x University Honors Excellence Scholarship | GBP Academic Scholarship