

TECHNICAL SKILLS

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

Framework/APIs – Node.js, React, MongoDB, Dataswarm, Git, Postman, Google Cloud, Angular, Spring, Lucene, Twitter API, jQuery

Methodologies – Agile, Continuous Integration/Deployment, Data Pipelining/Mining, DevOps, DBMS

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

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

WORK EXPERIENCE

Meta Reality Labs (Facebook): CW through Sigma Connectivity Inc. – Software Engineer II, *Burlingame, CA*

RL Build & CI – Data Engineer

Nov 2022 – Present

- Single handedly constructed metric for ARVR Queue time by mapping out disparity between Critical Path and Diff Signal Time
- Triaged needs of Workrooms teams in Bay Area and London, to define accurate visualizations for end of year Test Analysis
 - Developed comprehensive dashboard for test health, coverage, and landblocking later leveraged into entire RL Hardware line

Portal Jest E2E – Infrastructure and Framework Engineer

Mar 2022 – Nov 2022

- Unlocked 3rd party app (Zoom, Teams, etc) testing on Portal by driving development of Device State Restoration feature
 - Delivered **70%** runtime reduction by enabling concurrent runs on same device to facilitate better “Red-Green” Testing
- Revamped Device Restoration into Teardown to achieve sub **5%** Test Skips after identifying Emulator Setup Timeout Bottleneck

Maui Build Tool – Software Developer

Mar 2021 – Mar 2022

- Designed an E2E application to automate firmware updates, granting restoration of previously corrupted Portal devices
 - Led to recovery of up to **6,000** devices after further adapting for Smart Glass and Oculus, fostering “Move Fast” development
- Integrated stall tracking feature into Maui API to ensure seamless downloads by eliminating hang time for interrupted streams
- Constructed data pipelines to address **5.6x** monthly user growth and allow rapid product analysis with query speed up of **20.6x**

Portal Calling – Android UX Developer

Jan 2021 – Mar 2021

- Spearheaded Android Accessibility development for Portal Talkback UX feature set, to become P.O.C. within **2 months**

Proterra – Frontend Web Developer, *Burlingame, CA*

Nov 2020 – Dec 2020

- Deployed a jQuery-based component in the APEX 2020 portal, which standardized product information with 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**
- Devised image-to-string script to streamline audio lab testing and automatically collect Huawei wakeup results

Camp Galileo – Team Leader, *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 – Lead Full-Stack Programmer, *San Francisco, CA*

Jun 2023 – Present

- Engineered a website for users to engage in a Soccer Transfer Window, facilitating the buying and selling of up to **5023** players
- Leveraged authentic player valuation for an immersive marketplace with user-friendly lineup selection to build the dream team

Twitter Search Engine – Lead Full-Stack Programmer, *Fremont, CA*

Apr 2020 – Sep 2020

- Designed a scalable way for users to perform efficient searches across **9 million** tweets using Information Retrieval theory
- Implemented Lucene indexing for data crawled by Twitter 4j API with a Spring backend and intuitive Angular frontend

User Location Visualization Tool – Lead Full-Stack Programmer, *Fremont, CA*

Jul 2020 – Aug 2020

- Developed a web application capturing user engagement and plotting it on a map using Google Cloud API for a wearable product
- Crafted a sleek UI for secure user registration, encrypting and sending data with Postman to MongoDB for safe storage

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

Jan 2018 – Jun 2020

- Produced a podcast series of interviews exploring the intersection of music and identity for Immigrant Americans

Box Bot: UCR Citrus Hack Submission – Software Manager, *Riverside, CA*

Nov 2017

- **Best Hardware Hack Award** for motorized car controlled by a Bluetooth Android App in a team lacking hardware experience