Richard Guan

guanr@umich.edu • richardguan.me • (734) 730-3018

GitHub: github.com/rguan72

EDUCATION

University of Michigan, Ann Arbor, MI

B.S.E. in Computer Science, Minor in Mathematics GPA:3.93/4.00 Classes: Algorithms, Data Structures, Computer Vision, Operating Systems, Machine Learning, Computer Organization, Theory of Computation, Combinatorics, Elementary Analysis, Abstract Algebra, Statistics, Linear Algebra

EXPERIENCE

Citadel

Incoming Fall Software Engineering Intern Nuro, Inc

Software Engineering Intern

• Cached monorepo in cloud storage bucket with an Airflow DAG, reducing time to clone from 10 minutes to 2 minutes and preventing heavy load exerted on Nuro's GitHub enterprise instance when automated pipelines clone monorepo

• Created internal mirror of external dependencies to make Bazel builds 10% faster and immune to missing dependencies San Francisco. CA

Uber Technologies, Inc

Software Engineering Intern

• Launched feature on Uber Eats home feed, written in Golang, that ranks Eater's most used shortcuts first, resulting in +.3% increase in gross bookings in experiment and making it easier to introduce new verticals (Grocery, Essentials) into Eats app

• Built data pipeline in Apache Hive that aggregates mobile analytics data and disperses to Cassandra for use in current iteration of shortcuts personalization and to support future iterations that will use machine learning

• Wrote and presented design doc discussing need for shortcuts personalization, data pipeline, microservice architecture, alternative architectures, and implementation of project to get endorsements from engineers across Eats

Kare

Co-Founder

Ann Arbor, Michigan

January 2020 – September 2020

May 2019 – August 2019

July 2019 – October 2019

Cascais, Portugal

• Launched app that allows university students to form online support communities with guided sharing exercises and thorough moderation, scaling to 200+ weekly active users and 20,000 impressions to date

• Managed product development cycle of four-person team by scoping features, writing and delegating tasks with GitHub projects, and making core contributions to the app, written in React Native with Firebase Auth and Firestore Ann Arbor, Michigan

Larky

Software Engineering Intern

• Led full stack (Node.js, React.js, Android) development of suppressed notifications feature, an urgent client request

• Found and fixed major production bugs in Nudge, including inconsistent user input validation in dashboard's React.js form, incorrect status codes being sent from dashboard's Flask back end, and unnecessary push notifications sent by nodeapn from Node.js server to enable an update to be released one week earlier

UrbanBee

Co-Founder

• Co-founded a company that creates sensor-integrated behives for urban beekeeping hobbyists; awarded as a top 10 team at the European Innovation Academy and raised over \$1000 on Kickstarter

• Designed a React Native mobile app to monitor real-time temperature data logged in Firebase by an Arduino in a beehive

PROJECTS

Spotify Mixer: spotifymixer.com

• Released website utilizing React, Gatsby, Firebase, and Spotify API that automatically creates curated playlists for groups of people containing their favorite songs, garnering 50+ monthly active users October 2019 – December 2019

EngageMe (MHacks XII): bit.ly/Engage-Me

• Built back end of Chrome Extension that highlighted the most interesting parts of a YouTube video or lecture recording by viewer engagement, resulting in second place for Best Use of Google Cloud and Finalist for Best Overall at MHacks XII

• Implemented API in Python Flask for aggregating, storing, and retrieving user watch data using Google Cloud Firestore Codenames: codenames.co *January* 2020 – *May* 2020

• Developed real-time room-based word guessing game using React.js, React Router, Firebase Cloud Firestore, Webpack and Storybook that has been played 800+ times by 300+ distinct players

Chicago, IL

Mountain View, CA

May 2021 – August 2021

May 2020 -- August 2020

September 2018 - May 2022

September 2021 – December 2021

December 2020 – January 2021