KUSHAL SHAH

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EDUCATION

The University of Texas at Austin   *Bachelor of Science, Electrical Engineering*   *May 2022*

Cumulative GPA – 3.87

Skills   C, Java, C++, Node.js, JavaScript, Python, ARM, MySQL, Docker, Linux, AWS, GCP, MongoDB

WORK/INTERNSHIPS

Backend Software Developer- *Pop Social; Austin, TX*   *August 2020 – Present*
- Created an image upload and retrieval system with picture verification using Google Cloud buckets and virtual machines.
- Constructed a containerized Elasticsearch cluster to facilitate a new matching algorithm to improve user matches by 20%.
- Designed and implemented Kafka pipelines to aggregate log data for an AI matching algorithm based on user activity.

Technical Product Manager Intern for Cloud Infrastructure and Automation- *Visa; Austin, TX*   *May 2020 – July 2020*
- Designed high visibility infrastructure that facilitated the templatization of Dockerfiles to improve productivity by 3-6 hours.
- Created a marketplace for developers to share Dockerfiles across teams and companywide to reduce recreation by 80%.
- Devised tools to enable container users to edit and update Docker images through a fast and secure self-service portal.

Technology Intern- *XLab; Plano, TX*   *June 2019 – August 2019*
- Initiated a new product by designing a solar tracking embedded system for middle school children to build.
- Assisted the launch of an online platform that introduces kids to new technology by testing DIY IoT project kits.
- Tested existing project kits and improved them by offering critique on coding efficiency and circuit diagrams.

PROJECTS

Algorithmic Stock Trading Bot   *June 2020*
- Developed a simple bot to trade stocks with Python for short- and long-term portfolio growth.
- Utilized pairs trading, mean reversal, and Doji candlestick patterns to create a well-balanced and risk reduced algorithm.

tuktuk- *Cofounder / CEO*   *November 2019 – April 2020*
- Created a mobile carpooling platform startup that allows any user to post and join carpools through an app.
- Designed the frontend using React Native while the backend used AWS Lambda, RDS, Cognito, and API Gateway.

AWS Database Editor Alexa Skill   *October 2019*
- Implemented an Alexa Skill which allows users to query a MySQL AWS RDS database through simplified voice commands.
- Developed the Alexa Skill using JavaScript, Node.js, and the ASK CLI, with the service hosted on AWS Lambda.

Jetpack Joyride Embedded System Game   *May 2019*
- Built an embedded system with an LCD screen, buttons, sliders, and audio output to run a game based on Jetpack Joyride.
- Constructed the game mechanics in C, while interfacing the game with the embedded system using ARM assembly.

Trombone Button App   *October 2018*
- Developed a soundboard app with a 1000+ downloads, that generates trombone sounds and plays trombone music clips.
- Constructed the entire app using Android Studio to code the app, and Photoshop to develop art for the app.

ACTIVITIES

National Organization of Engineering and Business (NOBE)-*External Project Manager*   *August 2019 – Present*
- Participated in a stock simulation in order to learn about stock trading and investment within the technology industry.
- Competed in a case competition, in which a mobile alert app was used to mitigate the negative effects of a hurricane.

UAV Austin-*Member*   *August 2018 – June 2019*
- Designed an unmanned aerial vehicle that must autonomously navigate a randomized course and complete tasks in the air.
- Programmed and trained image recognition software in Python to identify simple shapes and characters.