Rishabh Shah

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Education

University of Texas at Austin, Austin, TX **Graduated May 2022**

- B.S. in Mechanical Engineering, Certificate in Computer Science
- Relevant Coursework: Data Structures and Algorithms, Databases, Data Analytics, Machine Learning, iOS Mobile Computing, Web Programming, Data Visualizations, Linear Algebra, Differential Equations, Numerical Methods (MATLAB)

Experience

Roku – Software Engineer – Austin, Texas **August 2022 – Present**

Technologies Used: Python, TestRail, Jenkins, Docker, GitLab, TeamCity, Jira

- Extended automation test framework by enhancing TestRail client to attach device logs to cases for efficient review
- Automated firmware validation using Raspberry Pi set-up to verify TeamCity firmware builds before roll-out
- Built interface to allow engineers to execute unit tests from Roku Commander, a remote device control suite

Hubspot – Software Engineer Intern – Cambridge, Massachusetts **August 2021 – December 2021**

Technologies Used: Java, React.js, Redux, Maven, Blazar, GitHub

- Re-designed cookie banner based on client feedback to increase visibility and monitoring capabilities
- Trained machine learning categorization model to label cookies as either advertising, analytics, or functionality to allow filtering of unnecessary cookies from user dashboard
- Initiated branch of banner to add appropriate consent checks and ensure compliance with EU consent laws

Roku – Software Engineer Intern – Austin, Texas **June 2021 – August 2021**

Technologies Used: Python, TestRail, Jira, Perforce, MATLAB

- Built end-to-end tool to automate 2-hour manual workflow testing of HDMI signal reception
- Bundled scraping application and TestRail API to validate automation test expected results
- Reduced need for manual updates of automation bot by created service to recurrently update between operations

Texas Instruments – Quality and Assurance Engineer Intern – Austin, Texas **June 2020 – August 2020**

Technologies Used: Python, Spotfire, SQL, MATLAB, Excel

- Devised data analysis tool to draw causalities between customer satisfaction data and design specifications, flagging components involved in disproportionate production issues
- Mapped and modified design verification tool to properly handle overlooked edge cases
- Spearheaded creation of systems guides to assist new engineers in identifying data retrieval tools for their use-case

Personal Projects

AirBNB Description Generator **July 2022 – December 2022**

Technologies Used: NLTK, OpenCV, Python, SQLAlchemy, React.js, Material-UI, Node.js, Davinci-003

- Built engine to identify weaknesses in a short-term rental description and suggest a ready-to-go AI-generated description based on the area, home, and amenities
- Integrated computer vision to detect if user showcased their top amenities and built an image evaluator to grade the user's images for blurriness, dullness, resolution, and presence of white spots
- Implemented SQLAlchemy to aggregate inputs and outputs and improve model performance

Sponsio, Online Waging Platform **September 2022 – May 2022**

Technologies Used: Python, React.js, Material-UI, Redux, Figma, Flask, Git

- Developed social media platform for users to make custom predictive wagers on sports, politics, and entertainment
- Utilized authentication server and Stripe API to handle active user accounts and securely allow for payments

LinkD, Digital Networking Card **December 2021 – Present**

Technologies Used: Xcode, SwiftUI, Firebase, Objective-C

- Built iOS application to allow users to generate custom digital cards with social and professional profiles
- Integrated Firebase to authenticate users and allow them to instantly show their LinkD profile to prospects to scan