Rishabh Shah

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Experience

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

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

- Shortlisted and implemented three key features to revamp TestRail API integrations for QA engineers: automated test plan generation, a test trawler for failure analysis, and a prettify feature for seamlessly discarding unused test cases
- Improved RokuOS third-party continuous integration pipeline performance by 65% via automated firmware upgrades, dependency reloads, and token re-authorizations
- Created internal developer's extension to containerize dependencies and improve remote testing workflow speeds by 40%

HubSpot – Software Engineer Co-op – Cambridge, Massachusetts **August 2021 – December 2021**

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

- Designed and built 3 features as part of HubSpot cookie consent banner to give businesses increased monitoring capabilities, including a company policy form, notification switch panel, and cookie insights page
- Pre-processed site cookie data using AWS Lambda function and built classification learning algorithm using sci-kit learn to improve client insights and monitoring capabilities of their cookies
- Co-led product beta release with 13 clients, syncing weekly to gather feedback and improve product user-friendliness

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

Technologies Used: Python, TestRail, Jenkins, Docker, GitLab, Roku Commander, Linux, SSDP (local network protocol)

- Integrated client to update and modify TestRail results during automated test execution
- Scaled test infrastructure to validate reception of 24 HDMI signals using External Control Protocol, a Roku RESTful API

Texas Instruments – Software Engineer Intern – Richardson, Texas **June 2020 – August 2020**

Technologies Used: Python, React.js, Spotfire, SQL, Jira, Perforce, MATLAB

- Built React components and routes for design validation application, achieving a more efficient and user-friendly workflow
- Facilitated data analysis service powered by SQL queries to highlight design issues based on customer returns data
- Collaborated with cross-functional teams to integrate and sync React components with back-end APIs

Projects & Entrepreneurship

Airbnb HostAI **July 2022 – Present**

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

- Built AI-driven platform to bring the power of LLMs to Airbnb hosts through optimized content generation
- Leveraged OpenCV Image Quality Assessment modules and NLTK text evaluation model to recommend listing optimizations
- Oversaw beta launch of product within short-term rental host networks, facilitating user feedback to inform feature updates

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

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

- Developed 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 handle transactions

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

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

- Programmed iOS application to allow users to generate custom digital cards with social and professional profiles
- Crafted aesthetic UI on Xcode Storyboard and integrated Firebase for user authentication

Airbnb Co-owner – Panama City Beach, Florida **December 2022 – March 2023**

- Co-purchased and renovated single-family home into vacation rental, grossing approximately $150,000 annually
- Integrated a dynamic pricing tool, AI-driven property care, chat bots to automate guest communication, and IoT ecosystem to achieve scalable, hands-free business model

Education

University of Texas at Austin, Austin, TX **2018 - 2022**

- B.S. in Mechanical Engineering, Minor in Computer Science, GPA: 3.72 / 4.00
- Relevant Coursework: Data Structures, Algorithms, Databases, Data Analytics, Machine Learning, iOS Mobile Computing, Web Development, Dynamic Systems and Controls, Mechatronics, Numerical Methods, Engineering Statistics, Linear Algebra