Rishabh Shah

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Education

University of Texas at Austin, Austin, TX   **2018 - 2022**
- B.S. in Mechanical Engineering, Minor in Computer Science
- <u>Relevant Coursework</u>: Data Structures, Algorithms, Databases, Data Analytics, Machine Learning, iOS Mobile Computing, Web Development, Dynamic Systems and Controls, Mechatronics, Fluid Mechanics, Thermodynamics, Solids, Numerical Methods, Engineering Statistics, Linear Algebra

Experience

Roku – Software Engineer – Austin, Texas   **August 2022 – Present**
Technologies Used: Python, TestRail, Jenkins, Docker, GitLab, TeamCity, Jira
- Implemented 7 continuous integration pipelines for RokuOS in third-party TVs, cutting 32 hours of monthly manual labor
- Improved RokuOS third-party automation framework performance by 65% by integrating a maintenance client to handle common failures (firmware upgrades, dependency reloads, token re-authorizations)
- Created extension in internal IDE to containerize dependencies and improve remote testing workflow speed by 14x

HubSpot – Software Engineer Co-op – Cambridge, Massachusetts   **August 2021 – December 2021**
Technologies Used: Java, React.js, Redux, Maven, Blazar, GitHub, TensorFlow
- 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
- Enabled cookie classification learning algorithm by setting up AWS S3 storage and writing lambda function to ensure training and test data validity and cleanliness
- Co-led beta release on 13 customer platforms, syncing weekly to gather feedback and improve product user-friendliness

Roku – Software Engineer Intern – Austin, Texas   **August 2021 – December 2021**
Technologies Used: Python, TestRail, Jenkins, Docker, GitLab, Roku Commander, Linux, SSDP (local network protocol)
- Integrated TestRail API in QA testing workflow to automatically update and export TestRail reports after 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 – December 2022**
Technologies Used: NLTK, OpenCV, Python, SQLAlchemy, React.js, Material-UI, Node.js, Davinci-003
- Built AI-driven platform to generate optimized property descriptions from scratch based on amenities and location
- Integrated openCV BRISQUE Image Quality Assessment modules and nltk text evaluation model to grade listing effectiveness
- Created one-stop platform for hosts to aggregate and reach out to local companies (contractors, cleaners, etc.) to build team

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 5-bedroom, single-family home into beach vacation rental
- 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