

# Rishabh Shah

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## Education

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University of Texas at Austin, Austin, TX

2018 - 2022

- B.S. in Mechanical Engineering, Minor in Computer Science
- Relevant Coursework: 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

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Roku – Software Engineer – Austin, Texas

August 2022 – Present

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

- Drove creation and maintenance of 7 continuous integration pipelines for RokuOS firmware in third-party devices, eliminating 32 hours of monthly QA testing
- 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)
- Enabled developer extension to containerize dependencies and allow engineers to remotely test devices 14x faster

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
- Set up AWS S3 storage and wrote lambda function to ensure training and test data validity and cleanliness for cookie classification learning algorithm
- Co-led product beta release on 13 customer platforms, iterating product weekly based on feedback

Roku – Software Engineer Intern – Austin, Texas

August 2021 – December 2021

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

- Integrated TestRail API in QA testing workflow to automatically update and export TestRail reports after test execution
- Scaled our HDMI testing infrastructure using Roku ECP, a local network protocol, to verify expected signal outputs

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 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

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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 unique, optimized listing descriptions and integrated computer vision to evaluate images for quality and brightness
- Created one-stop module where hosts can instantly search and build their ground team (housekeepers, pool cleaners, pest control, etc.) based on Google and Yelp reviews

Sponso, 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