

Rishabh Shah

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Experience

Roku – Software Engineer – Austin, Texas

August 2022 – April 2022

- Shortlisted and revamped TestRail API integrations in third-party automation framework using Python and AWS S3, empowering 250 company-wide engineers and saving 100+ annual hours of menial work through 3 key features:
 - Automated generation/population of custom test plans based on executed unit tests
 - Prettify feature to generate presentable reports from unstructured/incomplete test documents
 - Integrated trawler to allow native failure identification (previously exported and analyzed in Excel)
- Improved RokuOS third-party continuous integration pipeline performance by 65% via integrating automated firmware upgrades, dependency reloads, and token re-authorizations in failure handling workflow
- Improved automation infrastructure access speeds by 35% by containerizing framework dependencies using Docker

HubSpot – Software Engineer Co-op – Cambridge, Massachusetts

August 2021 – December 2021

- 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

- 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

- 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

- 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

[LinkD](#), Digital Networking Card

December 2021 – Present

- 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 fully furnished short-term rental, grossing \$150,000 annually
- Integrated property management software, AI-driven guest care, and dynamic pricing to achieve hands-free business model

Skills

Backend: Python, Java, Node.js, MySQL, PostgreSQL, MongoDB, Docker, Jenkins, NumPy, Pandas, TensorFlow, OpenCV, NLTK

Frontend: JavaScript, React.js, Redux, Next.js, HTML & CSS, GraphQL, Django, Flask, Material-UI, Swift, Objective-C, Xcode

Cloud: Google Cloud Provider (GCP), Amazon Web Services (AWS), Microsoft Azure, Heroku, Firebase

Other: Git, Jira, Confluence, Visual Studio Code (VS Code), IntelliJ, Jupyter/Python Notebooks, Bash/Shell, Dependency Injection, Unit Testing, Agile, Scrum, GPT-4, Prompt Engineering, Figma

Education

University of Texas at Austin, Austin, TX

2018 - 2022

- B.S. in Mechanical Engineering, 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