Rishabh Shah

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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, 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

Experience

Roku – Software Engineer – Austin, Texas   **August 2022 – May 2023**
- Empowered 1,000+ third-party developers to seamlessly build Roku channels by revamping TestRail API integrations with 3 key features to provide high-quality assurance tooling:
    - Automated generation/population of TestRail plans based on executed tests
    - Prettify feature to turn unstructured & incomplete test results into presentable reports
    - Native trawler to identify common failures and retrieve pertinent test execution logs
- Improved unit testing infrastructure access speeds by 13% by containerizing dependencies using Docker and creating shortcut in internal IDE to provide engineers prompt access of a consistent framework
- Spearheaded improvements in CI/CD pipeline for new tooling capabilities, saving 8 hours of manual work weekly

HubSpot – Software Engineer Co-op – Cambridge, Massachusetts   **August 2021 – December 2021**
- Designed and shipped 2 core front-end features as part of HubSpot cookie consent banner to assist businesses in monitoring site cookies, including a company policy form and style customization banner built using React.js and Node.js
- Enabled real-time cookie classification using AWS S3 Object Lambda to pre-process site cookie data (split training/test data and encode categorical variables) and deploy supervised learning model in production
- Co-led beta release on 13 customer platforms, syncing weekly to gather feedback and improve product user-friendliness

Roku – Software Engineer Intern – Austin, Texas   **June 2021 – August 2021**
- 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
- Scaled test infrastructure to validate HDMI signal operability using a Roku RESTful API, eliminating 32 hours of work monthly

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
- Created monitoring tool to highlight semiconductor design issues based on customer returns data using SQL and Spotfire
- Collaborated with cross-functional teams to integrate and sync React components with back-end APIs

Projects & Entrepreneurship

Airbnb HostAI   **April 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 input to inform feature updates

LinkD, Digital Networking Card   **October 2022 – December 2022**
- 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 – Present**
- 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

Education

University of Texas at Austin, Austin, TX   **2018 - 2022**
- B.S. in Mechanical Engineering, Computer Science, GPA: 3.72 / 4.00

- <u>Relevant Coursework</u>: Data Structures, Algorithms, Databases, Data Analytics, Machine Learning, iOS Mobile Computing, Web Development, Dynamic Systems and Controls, Mechatronics, Numerical Methods, Engineering Statistics, Linear Algebra