RISHABH GUPTA

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SUMMARY

- Software Engineer with 7+ years of experience developing robust applications, specializing in frontend development with React.js(Redux) and native Android development with Kotlin Compose.
- Proficient in designing and deploying scalable, cloud-native systems using AWS, GCP, Node.js(Express), Docker, and various SQL/NoSQL databases (PostgreSQL, MongoDB, Redis).
- Experienced in applying machine learning techniques with Python, Scikit-learn, and Keras to build predictive models and deliver data-driven solutions.
- Collaborative team player with a strong record of success in fast-paced Agile environments, ensuring on-time delivery and adherence to software development best practices.
- Currently on H1b work visa, valid till July 2026 and extendible till July 2029

FUNCTIONAL SKILLS

Software Engineering | Full-Stack Development | Web Development | Android App Development | Cloud Computing | Performance Optimization | Data Science | Machine Learning | UI/UX Development | Agile Methodologies | Cross-functional Collaboration

TECHNICAL SKILLS

Programming Languages	Kotlin, JavaScript (ES6), Typescript, Python, C++, Java, HTML, CSS
Frontend Technologies	Android App Development (Kotlin-Compose), React.js(Hooks) with Redux, Material-UI, D3.js
Backend Technologies	Node.js, Express.js, PostgreSQL, MongoDB, Redis, Docker, REST JSON APIs
Cloud Computing	AWS (EC2, S3, SQS, Cloudwatch), GCP (GAE, Cloud Vision)
Data Science Tools	Jupyter Notebook, Pandas, Scikit-learn, Keras, Numpy
Others	Git, Linux, Agile, Third-party API integration, Mocha, Chai, Cypress, Webpack, Gradle

WORK EXPERIENCE

Amazon, Seattle, United States   **Jun 2022 – Present**
Software Development Engineer

- Contributing to the development and maintenance of the Alexa Voice Assistant SDK and Alexa+ chat screen for Android app, overseeing on-call support, tracking system metrics, and managing alarms. Utilized Kotlin, Jetpack-Compose, Java.
- Developed and integrated entitlement logic within SDK, **delivered pixel-perfect User-Interfaces**, and optimized the user experience by **streamlining key interactions for Alexa+**
- Built AWS CloudWatch based metrics dashboard leveraging AWS CDK for efficient tracking and performance monitoring
- **Reduced cold start time for the Alexa app by 128ms** through the optimization of redundant receiver logic
- Addressed and resolved security compliance issues by fixing the Transitive Auth token flow, ensuring adherence to the Digital Markets Act
- Collaborated with partner teams to troubleshoot, debug and resolve bugs in a React-Native codebase, improving the Smart Home device list functionality, and **earning accolades for quick issue resolution**

GoDaddy, Tempe, United States   **Jan 2022 – Jun 2022**
Senior Software Engineer

- Spearheaded the Digital Onboarding V3 project, breaking down large requirements into smaller deliverables, managing A/B testing with Split.io, and coordinating development efforts across React components and backend services
- Developed new React components with corresponding unit tests and documented them in Storybook to improve maintainability and clarity. Utilized React.js, Typescript, HTML, CSS.
- Enhanced JIRA API integrations, modified backend services to support additional JIRA fields, and executed database migrations to ensure seamless production deployment

Liftoff LLC, Bangalore, India   **Mar 2017 – Dec 2018**
Software Engineer

- **Lead frontend development across multiple projects & clients** (eg. Skin-Laundry, Kinduce, Thinking Nation), collaborating on database schema design, API integration, and full-stack architecture.

- Developed dynamic Single Page Applications (SPAs) using React.js and Redux, interfacing with backend systems through JSON REST APIs. Used Node.js, Express.js, MongoDB
- Implemented advanced features using third-party modules, such as Single Sign-On (SSO), role-based access routing, geo-location services, and integrated payment systems
- Delivered high-quality Proof of Concept applications, directly contributing to **securing new client contracts**
- Designed and built a React-Native based photo capture app for iOS, enabling clients to capture in-store images with interactive overlays

Stayzilla, Bangalore, India   **Jun 2015 – Jan 2017**
Software Engineer 2

- **Improved user feedback collection by 50%** through a redesign of the feedback interface across web and mobile platforms. Used Jquery, Javascript.
- Developed REST JSON APIs for Host Verification services using Node.js, Express.js, and PostgreSQL, automating user authentication and property verification
- Built an automated testing framework integrating Node.js, Java-Selenium, and CircleCI, which **reduced deployment and testing times by 30%**

PROJECTS

Crowdsourcing for Situational Awareness (Aug 2021 - Dec 2021)
- Architected a full-stack **data visualization dashboard** using D3.js to empower first responders with real-time, actionable intelligence from crowdsourced data. Link: https://youtu.be/scCVcx2RXJY
- Engineered a modular system with a distinct frontend and backend architecture, developing custom APIs and a timeline widget to ensure seamless integration and enhance data reliability for critical decision-making.

Auto-scaling Image Classification System on AWS (Jan 2021 - May 2021)
- Engineered a high-throughput, **microservice-based** image classification system on AWS, leveraging S3, SQS, and EC2 to achieve **auto-scaling** and process hundreds of images in under three minutes.
- Delivered a dynamic and responsive user experience by implementing WebSocket communication, providing users with real-time classification results as they were processed.

COVID-19 Symptoms Tracker (Jan 2021 - May 2021)
- Developed a native Android health monitoring application in Kotlin, that track key vitals using built-in smartphone sensors.
- Implemented computer vision algorithms to analyze fingertip video streams for heart rate calculation (photoplethysmography) and processed accelerometer data to accurately determine respiratory rate.

Mood-based YouTube Recommendation System (Jan 2021 - May 2021)
- Architected a novel, auto-scalable web application on Google App Engine that delivers real-time YouTube recommendations based on user mood analysis.
- Engineered a unique user experience by orchestrating a multi-API pipeline: integrating Browser APIs for live video capture, the Google Vision API for mood detection, and the YouTube Search API to dynamically fetch and display relevant content

Multimodal Gesture Recognition (Aug 2020 - Dec 2020)
- Developed a gesture classification and clustering system using time-series data from sensors
- Transformed time-series data into a bag of words via quantization and sliding window methods
- Applied similarity measures (TF-IDF, dot-product, Edit-distance) for gesture comparison
- Used SVD and NMF for clustering gestures, **achieving 90% accuracy in classification and 95% with user feedback**

CircuitTutor (Jun 2020 - Dec 2021)
- **Improved User Experience of Equation editor by 77%** by researching and creating drag and drop based interface
- Launched full Bode Plots game by fixing issues in Questionnaire flow, adding introductory tutorial and higher levels of the game.

EDUCATION

Master of Science in Computer Science (Big Data Systems)   *2021*
Arizona State University, United States

Bachelor of Engineering (Computer Science)   *2015*
BITS Pilani Goa Campus, India