

Raghav Raman Garg

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TECHNICAL SKILLS

Android Development: Android SDK, Android Studio, Jetpack, WebView, Gradle, Material Design

Android Testing: JUnit, Mockito, UI testing (Espresso), E2E testing (Maestro), AndroidX Test

Languages: Kotlin, Java, React Native, SQL, Python, C/C++, Typescript, Bash/Shell

Backend & Systems: Spring Boot, Microservices, REST APIs, Node.js, Docker, Kubernetes, Redis, Linux

AWS Services: ECS/EC2, Lambda, S3, Cloudwatch, Data Pipeline, Cloudfront, Sagemaker, DynamoDB

EXPERIENCE

Amazon Inc.

Senior Software Development Engineer

Apr 2024 – Present

- Re-architected a large-scale **Android** search application into a hybrid (**Native + React Native**) platform, enabling runtime updates via cloud-hosted React Native bundles (polled on-device, independent of app releases)
- Redesigned Android background task processing using **Kotlin Coroutines** and **Work Manager**, improving lifecycle-aware execution, reducing ANRs by **50%**, and increasing task completion reliability by **25%**
- Architected and developed a high-performance **distributed microservice** using Amazon Coral, integrating **AWS Lambda** and **API Gateway**, and scaled **AWS ECS** infrastructure to handle 30M+ daily requests with 99.99% uptime.

Software Development Engineer

Jan 2022 – Mar 2024

- Engineered a scalable ETL data pipeline using **AWS Redshift**, **S3**, and **Glue** to ingest and process terabytes of system telemetry. Built real-time health monitoring dashboards in **CloudWatch** to ensure system reliability.
- Developed a fully automated **CI/CD pipeline** using **AWS CDK (TypeScript)**, integrating regression test suites and automatic rollback mechanisms to ensure zero-downtime deployments for the search infrastructure.
- Optimized **Android** networking layer by re-architecting HTTP client configurations and implementing connection pooling, reducing network latency by **40%** for critical API calls

Barclays Bank PLC

Intern, Wealth Processing

May 2021 – Jul 2021

- Built a full-stack web app using **React** and **Node.js** to manage and share private Docker registry images for Barclays developers testing software versions
- Implemented secure backup and version-controlled storage using **Amazon S3**, leveraging TLS authentication to enhance data integrity

Centre for Railway Information Systems

Data Science Intern

May 2020 – Jun 2020

- Engineered a machine learning-based freight scheduling algorithm using **Python (Pandas, Numpy)** and **XGBoost**, leveraging weighted linear regression to optimize scheduling efficiency with **90%** accuracy.

EDUCATION

Birla Institute of Technology and Science, Pilani

Aug 2018 – June 2022

B.E. Computer Science, GPA: 8.01/10

Relevant Coursework

- Linear Algebra, Probability & Statistics, Distributed Systems, Operating Systems, Data Structures & Algorithms

Co-Founder and President - Toastmasters Club, BITS Pilani

- Spearheaded the establishment of the university chapter and organized public speaking and leadership events

Senior Member - Corroboration and Review Committee

- Selected from **top 1%** of student body to lead the Corroboration and Review Committee, directing financial auditing and **£200K** capital allocation across 50+ departments

PROJECTS AND AWARDS

IBM Hackathon - First Position | Fake News Detection

Dec 2018 – Jan 2019

- Employed **NLP** and **Machine Learning** in Python to classify news, receiving special commendation for optimizing space and time complexity