KARTIKEY SHARMA

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EDUCATION

New York University

New York University

Master of Science (MS) in Computer Science, GPA: 3.83 / 4.0

May 2025

Coursework: Design and Analysis of Algorithms, Big Data, Programming Languages, Software Engineering, Java

Indian Institute of Technology - Goa

Goa, India

Bachelor of Technology (B.Tech)

June 2023

Coursework: Linear Algebra and Calculus, Computer Architecture, Machine Learning, Randomized Algorithms

TECHNICAL SKILLS

Programming Languages: C++, Java, Kotlin, Python, SQL, MATLAB, C#

Web Development: HTML, CSS, JavaScript, React.js, Vue.js, Flask, Heroku, MongoDB, Node.js

Android Development: Firebase, XML, Jetpack Compose, Google Maps, MVVM Architecture, Coroutines, Gradle, Dagger, Hilt

Frameworks and Tools: Postman, NumPy, Jira, Android Studio, Linux, JUnit, Apache Spark, Hadoop, .NET

WORK EXPERIENCE

Software Engineer Intern, SiriusXM, New York, NY

June 2024 - August 2024

- Engineered a smartwatch module for the SiriusXM Android app using **Java**, **Kotlin**, and Jetpack Compose, **collaborating** with 5+ managers and the product team, resulting in a 30% increase in projected user engagement.
- Integrated Google Data APIs for seamless mobile and **Wear OS audio streaming** and designed an innovative "Now Playing" screen using Kotlin Coroutines and followed the MVVM architecture.
- Presented a tech talk to over 50 senior Android developers and stakeholders, detailing project milestones and outcomes.

Full Stack Developer, MicroERP Systems, Delhi, India

May 2023 - August 2023

- Ideated and architected features for the **inventory management component of an ERP system**, collaborating in a team of 5 and participating in weekly SCRUMs and ideation sessions.
- Revamped the database architecture using MS SQL Server to integrate an inventory tracking workflow and automated the population of over 50 inventory scenarios using Python, reducing manual processing time by 70%.
- Implemented a data processing pipeline using **C#**, **.NET**, Entity Framework with LINQ, and stored procedures. Integrated this pipeline with an AngularJS application UI through APIs using best coding practices, resulting in 98% crash-free sessions.

Software Developer Intern, MathWorks, Bangalore, India

June 2022 – Nov 2022

- Achieved a 70% reduction in latency by enhancing the Simulink Annotation Editor by implementing multi-threading in JavaScript and C++ using object-oriented analysis and design.
- Deployed interactive workflows to automate test generation, increasing model coverage by 30% using MATLAB.
- Attained a 90% accuracy rate in **predicting MATLAB build test outcomes** by creating a decision tree model.

PROJECTS

Dining Eats (Python, HTML, AWS: S3, Lex, Lambda, DynamoDB, Elasticsearch)

- Designed and programmed a chatbot to provide restaurant recommendations based on user input.
- Ideated a serverless application using AWS services to manage restaurant data and handle notifications efficiently.
- Enhanced user experience and reduced response latency by 60%, enabling the chatbot to process over 10 parameters, index recommendations, and send notifications.

HTTP Proxy(C, C++)

- Developed an HTTP proxy in C to handle up to 100 concurrent requests, improving processing efficiency by 40% through effective process management combining mutexes, semaphores, and preemptive multithreading.
- Parsed and transmitted client requests to the target server, achieving a 95% accuracy rate in data transmission.
- Implemented comprehensive error-checking, reducing debugging time by 30% through clear and immediate error reporting.

Codeforces Visualizer (Android, Kotlin, Java, Coroutines)

- Architected, designed, and implemented an Android app to visualize user data, 10+ beneficial statistics, and scheduled
 contests on Codeforces. Utilized multithreading with MVVM architecture to ensure efficient and responsive UI
- Developed test strategies and automation frameworks, incorporating unit/functional tests to enhance code coverage to 93%, heading a team of 5 student developers, and shared biweekly progress reports with professors

Spark Your Imagination (Python, Apache Spark, MapReduce, Streamlit)

- Deployed user-based and collaborative recommendation systems leveraging Apache Spark and Streamlit
- Performed sentiment and genre cluster analysis using UDF on the Goodreads dataset, analyzing 229M records