**Mayank Jain (Manu J.)**

**Full Stack Technical Engineer | Seattle, WA 98101 USA |** [**LinkedIn**](https://linkedin.com/in/manuj4u/) **|** [**GitHub**](https://github.com/mjain45/)

**SUMMARY**

Highly accomplished Software Engineer with 7+ years of experience specializing in cloud-native infrastructure, networking, and distributed systems including mobile app development with Flutter for cross-platform applications (Android, iOS, web). Proven track record of leading high-performance teams to deliver scalable and reliable software solutions for B2B and B2C markets, with a focus on e-commerce and Health Tech. Expertise in embedded C, Python, Java, JavaScript, Python & modern frameworks on UI to UX, AWS, GCP, Azure, Microservices architectures, and Distributed Database Systems. Passionate about solving complex technical challenges and driving innovation through technology via social forums/activities.

**SKILLS**

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| Programming Languages:  | JavaScript, Java, Python, Embedded C, C++, C#, Go Lang, TypeScript, Scala, SQL. |
| Frameworks:  | Angular JS, ReactJS, Spring Boot, .Net Core Entity Framework, TSx, Open API, Databricks, Amazon Open API Java SDKs and Flutter |
| Cloud Platforms:  | AWS, GCP, Azure, Adobe Creative Cloud, IBM Watson Cloud, Databricks, MongoDB, Microsoft 365 |
| Embedded Systems:  | RTOS Bootloaders, Hardware/Software Integration, FPGA, Debugging, Android Studio |
| Other:  | Kubernetes, Key Performance Indicators, Project Planning, Open API, Docker, CI/CD, Terraform, HATEOS APIs, Microservices, Agile, Adobe Creative Cloud AWS (Lambda, EC2, S3, DynamoDB, RDS, API Gateway, CloudFormation), Docker, Kubernetes, Jenkins, Git, REST APIs, GraphQL, Jira |

**EDUCATION**

Westcliff University, Irvine, California

Jun 2024-Aug 2024

Master of Business Administration, (Executive/Professional)

Arizona State University -Tempe, Arizona

Aug 2020-May 2022

Master of Science, Computer Science (Major) & Information Systems (Minor), GPA: 3.83/4

Arizona State University -Tempe, Arizona

Aug 2013-May 2017

Master of Science, Computer Science (Major) & Information Systems (Minor), GPA: 7.35/10

**EDUCATIONAL / PORTFOLIO PROJECTS**

* IBM Hackathon CallforCode '21
* Winner of Robotryst 15-16’ A National Level Championship representing my School at State Level @ IIT Delhi by Robosapiens
* Student Leader at Fulton Schools of Engineering and Tutoring Centre, ASU
* Author - CVPR '24 IEEE Computer Society (SEA)
* Member of Nerd IT Club at Arizona State University
* Inter-State Level Athlete in Cricket, Badminton, and other racket sports in India and the USA
* Authoring Streaming Platforms like Youtube, Snap, Insta, and X via @MVKJSportsTech Handle
* Led multiple marketing and mouth of word via Experience campaigns for Multiple B2B/B2C
* Won Multiple Coding and Leet Coding, Aptitude and CS-based test using coding skills and leadership principles in a team environment.
* Data Driven Decisions making in Supply Chanin Management

**WORK EXPERIENCE**

**Tech Consultant (Product Engineering/ Educational)**

**IEEE CVPR Research x Symposium of Applied Research 24’ |Remote, Irvine, CA, USA**

**June 2024 – Present**

* Performed validation and testing of engineering models to support adequacy and reformulated models on native environments via Sports Tech.
* Conducted extensive design of experiments to target variables of interest to fine-tune LLMs for dedicated(personalized) results on KPIs.
* Designed XML/UX Designs to create 3D models for subsequent performance evaluation and concept substantiation.
* Conducted full lifecycle software development from planning to deployment and maintenance via sustainability metrics
* Completed the research paper abstract to present the results in the 8th Annual Symposium of Applied Research at Westcliff University in October ‘24

**Senior Software Engineer (Solutions Engineering Consultant on Contract)**

**Cogent Infotech |Philadelphia, PA, USA**

**Nov 2023 – May 2024**

* Migrated Rest APIs on old stack of Java to new Full stack microservices on Java 11 and systems integration using best secure design principles for robust end-to-end encryption using JWT Tokens
* Authentication and Authorization/Verification of Existing Database to reframe signup and registration mechanisms.
* Developed and Authored UI/UX and UED for better intuitive wireframes/Native Applications using native ReactJS and TSx framework.
* Built an intuitive and interactive Single Page Application utilizing TypeScript, HTML, and CSS and modern frameworks like UI Path.
* Developed cross-platform mobile applications using Flutter for both iOS and Android, streamlining app delivery and reducing development time by 30%.
* Designed and implemented custom Flutter widgets to meet specific client UI/UX requirements, creating a more user-friendly experience across platforms.
* Integrated Flutter apps with backend services using REST APIs, improving real-time data synchronization between the app and server.s
* Developed and maintained Java-based applications, ensuring high performance and scalability, while integrating Kafka for real-time data streaming and event-driven architectures.
* Implemented unit tests using JUnit and Mockito frameworks to ensure code quality, achieving over 90% test coverage across multiple modules.
* Integrated OpenID Connect for secure authentication in distributed applications, enhancing user authentication flow and ensuring OAuth2 compliance.
* Designed and developed RESTful APIs in Java, incorporating Kafka for message queuing and real-time data processing, improving application responsiveness and reliability.
* Led the development of microservices architecture, with Java and Kafka, to enhance scalability and fault tolerance, reducing system downtime by 15%.

**Software Dev. Engineer**

**Amazon.com Inc (Amazon Web Services/Kinesis Data Streams, MSK/MSF) | Seattle, WA, USA**

**June 2022 – July 2023**

* Led a DevOps project migrating legacy Java code, improving system availability and scalability for 10M+ users.
* Collaborated with the AWS Kinesis Data Analytics team to design and implement solutions, enhancing data processing efficiency.
* Developed and deployed a REST API, increasing on-call operator utilization by 30%.
* Streamlined availability issue investigations, reducing operator effort by 20%.
* Led development of a highly scalable data processing pipeline with real-time monitoring and alerting.
* Improved data analysis accuracy by 15% through new feature design and implementation.
* Engineered a load distribution system, ensuring optimal performance during peak usage.
* Integrated CI/CD pipelines, increasing team productivity by 20% and reducing issue resolution time by 10%.
* Completed three successful cycles of System Reliability Engineering/OnCall with resolving more issues pending in the pipeline/backlog

**DevSecOps Engineer Intern**

**ESRI (Arc GIS Pro/ Story Maps) | Redlands, CA, USA**

**Jan 2022 – April 2022**

* Containerized Jenkins CD/CI Pipeline Migration by with cloud infrastructure and APIs showcases ability to interact with hardware at a system level.
* Successfully migrating the Jenkins Continuous Delivery/Continuous
* Integration (CD/CI) pipeline to a containerized environment, resulting in a 30% reduction in deployment time.
* Authored 15 Terraform scripts to establish infrastructure as code, leading to a more streamlined and reproducible deployment process.
* Engineered and deployed 8 AWS Lambda functions to facilitate the migration of APIs from a monolithic architecture to a scalable microservices-based architecture.

**Cloud Computing Engineer Intern**

**Adobe Inc. (Global Admin Team/Cloud Storage) | San Jose, CA, USA**

**May 2021 - Aug 2021**

* Designed and developed a scalable, cloud-native storage service using Java, ensuring efficient data transfer and seamless systems integration
* Streamlined user experience translating HATEOS subsystem REST service calls supporting concurrent export requests using Spring Boot with GraphQL.
* Developed an interactive UI with ReactJS frameworks, TypeScript, HTML, and CSS for creating and downloading storage reports.
* Integrated front-end and back-end through REST end points (APIs) for smooth data flow and system interoperability.
* Reduced execution time by 30% with an efficient algorithm optimizing system performance.
* Enhanced cloud storage insights across organizational hierarchies by designing and implementing storage service components in Java.
* Enabled Improvised API calls, enabling seamless Storage reports export.
* Executed exports as Jobs, supporting concurrent user export requests.
* Developed an intuitive and interactive User Interface utilizing React, TypeScript, HTML, and CSS, empowering users to effortlessly create, view, and download Storage reports.
* Seamlessly connected the front-end and back-end through APIs, specifically
* integrating functionalities such as Generate Storage Reports, and Create Jobs including all subsequent CRUD operations as per APIs
* Fetch Reports, and DownloadUrl. Entered commands and observed system functioning to verify correct operations and detect errors

**Full Stack Engineer**

**B2B/B2C Clients, NAV Fund Administration Group, JSAS (FinTech, Health Tech, ERP Solutions) | India**

**Jun 2017 - July 2020**

* Developed and maintained a robust .NET Core fund accounting application with Entity Framework.
* Successfully migrated critical fund data to a NoSQL database on Azure Cloud using SQL-stored procedures and triggers
* Led cross-functional teams through the full Software Development Lifecycle (SDLC), employing Agile Test-Driven Development (TDD)
* Improved Fund Reporting via Optimized calculations leading to a 20% increase in speed and enhancing the accuracy and timeliness of fund reporting.
* Optimized User Experience by enhancing Supply Chain Management interfaces and improving usability and functionality to support business growth.
* Developed critical front-end features for solutions on Blockchain using the Go lang Supply Chain module, ensuring seamless integration and performance
* Reported and discussed with the C Level Engineering member to make sure all business requirements were fulfilled with a given criteria of budget allocation while meeting timelines in the Agile Setting
* Applied TDD (Test-Driven Development) principles, writing unit and integration tests before implementing Java application features, which improved overall code quality and bug detection.
* Configured Kafka brokers, topics, and partitions to handle high-throughput data streams, ensuring seamless integration with Java-based microservices.
* Utilized OpenID for federated identity management, providing secure access control and improving user authentication experiences across cloud-based applications.

**Full Stack Android Developer**

**Explore Educational Interest Application (Android Studio), LNCT, RGPV | India**

**Jun 2016 - May 2017**

* Developed and maintained a robust Android Studio application for Further Studies/Certificates and Abroad Studies Prep.
* Used HTML/CSS to develop and wire-frame the initial screens on Android Studio to enhance user experience
* Completed the end-to-end development using JAVA backend and Using MySQL as local database.
* Integrated Line Follower Robot, with cloud infrastructure and APIs showcases the ability to interact with hardware at a system level.