Mohan Kumar A

+91 - 911 081 1398 **|** mohanka2102@gmail.com
GitHub **|** LinkedIn **|** Personal Portfolio

EDUCATION

Global Academy of Technology, Bengaluru   *AUGUST 2017 – AUGUST 2021*
Bachelor of Engineering: Electronics & Communication - **8.28/10 CGPA**

PROFESSIONAL EXPERIENCE

Software Engineer II: Lytx, Bengaluru   *AUGUST 2024 – CURRENT*
- Designed a **seamless async file download** pipeline with secure link generation and non-blocking background processing, delivering uninterrupted UI/UX for **large data transfers**.
- Engineered a high-performance batch processing system to analyse **90M+ records** using Node.js worker threads, uncovering usage patterns and flagging data anomalies through time-based comparisons.
- Actively contributed to **technical architecture discussions**, influencing key design decisions and ensuring **scalable**, **maintainable** system solutions aligned with business goals.
- Built and integrated an email-enabled **reporting module** with dynamic content generation.
- Enhanced application functionality through multiple **feature development** and **bug resolution**.

Senior Consultant: JK Tech, Bengaluru   *APRIL 2024 – AUGUST 2024*
- Developing **optimized**, **scalable**, **modular code** for a **web application,** resulting in a **20%** reduction in bug reports, improving overall user experience, and **easy-to-debug** functionality.
- Collaborated with third-party technology services, offering strategic insights to ensure smooth integrations.
- Balancing both **frontend** and **backend** tasks while **mentoring** and **guiding** junior team members, accelerating faster project delivery timelines**.**

Consultant: JK Tech, Bengaluru   *SEPTEMBER 2022 – MARCH 2024*
- Integrated **seven innovative features**, elevating the application's **user-friendliness** to new heights.
- Implemented **batch processing techniques** and **caching strategies** that resulted in an impressive **70% boost** in **application efficiency** and **response times**, **significantly reducing database queries** and **server load** while enhancing the overall user experience.
- **Led the design, development, and maintenance of eleven REST APIs**, including end-to-end ownership of documentation and implementation, resolving **critical bugs** to improve system reliability.
- Crafted **complex SQL queries**, **optimized database performance**, and adeptly managed **data migration**, **backup**, and **restoration** processes, resulting in a **10% improvement** in overall **database efficiency**.
- Extensively employed the **JEST Framework** to create over **350+ unit tests**, validating user interfaces, backend processes, connectivity, and interactions with relational databases.
- Throughout **ten quarters** utilized **agile methodology** to meet project milestones effectively.

Associate Consultant: JK Tech, Bengaluru   *AUGUST 2021 - AUGUST 2022*
- Underwent comprehensive training in a wide range of technologies and illustrated the acquired knowledge by developing **two small applications**.
- Engaged in a **FinTech** project for an international client, collaborating with **five cross-functional teams**.
- Under the supervision of senior team members, **resolved more than three technical issues** by analysing and providing **feasible** and **optimum** solutions.
- Contributed to creating **two proofs-of-concepts (POCs)** that significantly improved the system's performance and user interface.

SKILLS

Languages:	TypeScript, JavaScript, HTML, CSS, Python, SQL, HashiCorp Configuration Language, Shell scripting
Tools:	Docker, Kubernetes, Git, Postman, RabbitMQ, Kibana, Kakfa, New Relic
Frameworks:	Node.js, Nest.js, Express.js, Angular
Cloud Platforms:	AWS, Google Cloud
Databases:	Postgres, MySQL, MongoDB, Redis
Soft Skills:	Leadership, Strategic Thinking, Teamwork, Effective Communication
Concepts:	OOPs, Microservices, Multithreading, Event Oriented Architecture, Domain Driven Design, DOM, REST
Exploring:	Blockchain Development, System Architecture, GraphQL, Apollo, React.js, Next.js, SSIS

CERTIFICATIONS

- Google Cloud Certified Professional Cloud Developer – **Google Cloud**
- Career Essentials in Generative AI by Microsoft and LinkedIn - **LinkedIn Learning**
- IBM Data Science Professional Certificate – **Coursera**
- Java Full-Stack Course – **Pentagon Space**
- AWS Essentials – **A Cloud Guru**
- NodeJS - The Complete Guide – **Udemy**
- NestJS Fundamentals – **Official NestJS Course**

PROJECTS

Personal Portfolio | Link *React, Next.js, Tailwind CSS, Motion Framer*

Crafted a personal portfolio project using **modern frontend technologies**, focusing on delivering an **exceptional user experience**. With a **responsive design**, ensuring compatibility across various devices, offering seamless navigation, and showcasing work effectively.

Currency Exchange Application | Link *Node.js, Angular, Material UI*

Developed a **web application** featuring core functionalities such as **retrieving conversion rates** and **generating historical graphs** for specified currencies.

Library Management System - Backend Implementation | Link *Node.js, Express.js, MongoDB*

Pioneered a **microservices-based backend architecture**, encompassing **user authentication**, **authorization**, **CRUD operations** on a **NoSQL database**, as well as **search** and **favorite addition** features, all managed by dedicated services.

Hand Gesture Recognition Using CNN *Python, Keras, Open CV*

A simple hand gesture recognition model leverages **convolutional neural networks** to process snapshots, enabling seamless communication through sign language.

HONORS & AWARDS

- **Thank You Award** - **JK Tech:** Honoured for outstanding dedication and performance in serving the organization.
- **Note of Appreciation - JK Tech**: Recognized for balancing project demands and dedication to the Professional Cloud Developer Certification.
- **Applauz Awardco Recognition – Lytx:** Recognized for resolving a complex legacy issue affecting a critical functionality for a key client, showcasing strong ownership, technical expertise, and customer focus.