

Mohan Kumar A

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EDUCATION

B.E. ELECTRONICS AND COMMUNICATION ENGINEERING

AUGUST 2017 – AUGUST 2021

- Global Academy of Technology, Bangalore – **8.28/10 CPGA**

PROFESSIONAL EXPERIENCE

CONSULTANT | JK TECH

SEPTEMBER 2022 - CURRENT

- Developed an **optimized, modular code architecture** for a **web application**, resulting in a **25%** reduction in bug reports, improved overall user experience, and **easy-to-debug** functionality.
- Took charge of designing, developing, and overseeing a **new microservice**, ensuring seamless integration with the existing system.
- Integrated **9 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.
- Successfully analysed and tackled high-priority issues by resolving **5 critical bugs**.
- Took ownership of the end-to-end process, including design, development, maintenance, and documentation, for **more than eight REST APIs**.
- Crafted **complex SQL queries**, **optimized database performance**, and adeptly managed **data migration, backup, and restoration** processes, resulting in a **15% improvement** in overall **database efficiency**.
- Extensively employed the **JEST Framework** to create over **300+ unit tests**, validating user interfaces, backend processes, connectivity, and interactions with relational databases.
- Throughout **eight quarters** utilized **agile methodology** to meet project milestones effectively.

ASSOCIATE CONSULTANT | JK TECH

AUGUST 2021 - AUGUST 2022

- Underwent comprehensive training in a wide range of technologies.
- Illustrated the acquired knowledge by developing **2 small applications**.
- Engaged in a **FinTech** project for an international client, collaborating with **three cross-functional teams**.
- Under the supervision of senior team members, **resolved 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.
- Participated in implementing the **Event Store** for **two significant microservices**.

TECHNICAL SKILLS

LANGUAGES - TypeScript, JavaScript, HTML, CSS, Python, Java, C#, SQL, Shell, HashiCorp Configuration Language.

TOOLS/SOFTWARES - Docker, Kubernetes, Git, Postman, RabbitMQ, Kibana.

FRAMEWORKS - Node.js, Nest.js, Express.js, Flask, Spring, ASP.NET, Angular.

CLOUD PLATFORMS - AWS, Google Cloud.

DATABASES - Postgres, MySQL, MongoDB, Redis.

SOFTSKILLS - Critical thinking, Teamwork, Effective Communication.

CONCEPTS - Microservices, Multithreading, Event Oriented Architecture, Domain Driven Design, DOM.

EXPLORING - Blockchain Development, System Architecture, React.js.

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

PERSONAL PROJECTS

CURRENCY EXCHANGE APPLICATION - Explore Application

Checkout Repository

- Developed a web application with essential functionalities utilizing **Node.js** and **Angular**.

LIBRARY MANAGEMENT SYSTEM

Checkout Repository

- Pioneered **microservices**-based backend architecture for a web application using **Node.js** with the **Express Framework** and **MongoDB** to demonstrate acquired knowledge.

HAND GESTURE RECOGNITION USING CNN

- A simple hand gesture recognition model leveraging **convolutional neural networks** to process snapshots, enabling seamless communication through sign language, Using **Python**, **Keras** and **OpenCV**.