Sujay N B

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PROFESSIONAL SUMMARY

Software Engineer and MCA graduate with strong foundation in building **scalable software services** and data platforms. Proficient **in Python, Java, and SQL** with hands-on experience developing **RESTful APIs**, managing databases (SQL/NoSQL), and implementing CI/CD pipelines. Demonstrated ability to write clean, well-documented code and collaborate effectively across multi-functional teams in **Agile** environments. Passionate about solving complex technical problems and contributing to innovative, **industry-leading** software solutions at global scale.

TECHNICAL SKILLS

- **Languages:** Java, Python, JavaScript, SQL
- **Backend Frameworks**: Spring Boot, FastAPI, Flask, Node.js, Express.js
- **API Development**: RESTful APIs, Microservices Architecture, JWT Authentication
- **Frontend:** React.js, React Native (Expo), HTML5, CSS3, JavaScript (ES6+)
- **Databases**: MySQL, PostgreSQL, MongoDB Atlas, SQLite
- **Cloud & DevOps**: AWS (EC2, S3), Docker, CI/CD, Microservices, Linux
- **Testing & Quality:** JUnit, pytest, Postman, Integration Testing
- **Tools:** Git/GitHub, VS Code, Maven/Gradle, Agile/Scrum

PROFESSIONAL EXPERIENCE

Software Engineer - Jordan Guild Tech   Bangalore |Oct 2025 – Present|

- Architected and developed a robust backend using **FastAPI** and **MongoDB** Atlas, managing complex data relationships for an exam preparation platform.
- Engineered secure REST APIs to handle user authentication (**JWT**), payment gateway integration, and email services, ensuring data privacy and security.
- Implemented **Dockerized** deployment workflows and set up GitHub Actions for CI/CD, ensuring reliable, automated production releases. Conducted rigorous API testing using **pytest** and ensuring backend correctness before deployment.

| **Q-Prep https://jgtechgroups.com** |

Freelance Software Developer   Mysuru |Mar 2024 – Jul 2025|

- Delivered 10+ end-to-end web solutions, managing full stack from **server-side logic** (Node.js) to database integration.
- Translated **client requirements** into functional **technical specifications**, handling deployment and maintenance for diverse client projects.

KEY PROJECTS

Real-Time Fall Detection System (Python, Edge Computing) | https://github.com/Sujaynb/fall-detection-edge |

- Innovation Focus: Designed a real-time detection system using YOLOv8, processing video streams at 25 FPS with <150ms latency.
- Optimized performance for edge devices, demonstrating strong system-level engineering and algorithmic efficiency.
- Recognition: Awarded **Best Poster Presentation (JSSTU 2025)** for innovation in edge computing and system design.

Visual Speech Recognition (CNN, OpenCV, MediaPipe) | https://github.com/Sujaynb/Visual-Speech-Recognition-ML |

- **Deep Learning Pipeline**: Built a real-time lip-reading system using CNN-LSTM, achieving 85% accuracy on a dataset of 15,400 samples.
- Latency Optimization: Engineered **a TensorFlow-OpenCV** pipeline with data augmentation for low-latency real-time inference, aligning with industry standards for video processing.

Affordable Housing Inspection App (Android, Java, SQLite)

- Implemented software configuration management practices including version control, baseline management, and change tracking using Git for Android application development
- Developed quality checklists and inspection criteria for field data collection, ensuring data integrity and validation rules were consistently applied And Created user documentation and conducted training sessions
- Established metrics tracking system for app usage patterns, error rates & data quality, reduced manual inspection by 40%

EDUCATION

Master of Computer Applications (MCA) – CGPA: 7.6	JSSTU / SJCE, Mysore | 2025
Bachelor of Computer Applications (BCA) – CGPA: 7.2	NIE FGC, Mysore | 2023
Pre-University (PUC) –77.3%	Karnataka State Board, Mysore | 2018