RAVI TEJA SONU CHITTALURI

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OBJECTIVE

Backend-Focused Software Engineer specialising in building high-performance APIs, optimising distributed systems, and enhancing developer productivity. Passionate about contributing to scalable developer tools and backend platforms that impact millions of users. Eager to join your company to leverage my problem-solving skills, technical expertise, and continuous learning mindset in a dynamic environment that values innovation, collaboration, and excellence.

EXPERIENCE

SOFTWARE DEVELOPMENT ENGINEER | ZMater Technologies   *Oct 2024 - Present*

- Developed and optimised **RESTful** APIs using **Java**, **Go**, **Python**, and **Node.js** to handle over 500,000 daily requests, ensuring high availability and performance while maintaining code quality through extensive testing and debugging.
- Improved **data retrieval performance** by 30% through efficient query optimization and database indexing in **PostgreSQL**.
- Automated backend workflows in Java and Python, reducing manual tasks by 40% and implementing robust error-handling mechanisms to maintain system stability.
- Integrated secure **authentication mechanisms** using **JWT** to enhance user data protection across services.
- Collaborated with cross-functional teams, including frontend developers and DevOps engineers, to deliver scalable, secure backend solutions.
- Implemented **CI/CD pipelines** using **Jenkins**, ensuring smooth and automated deployments.
- Built robust logging and error-handling mechanisms to enhance system reliability and debugging processes.

SOFTWARE DEVELOPMENT ENGINEER INTERN | Cyber_ekta   *Mar 2023 - Jul 2023*

- Built and optimized data transformation scripts using **Python** and **SQL**, improving data processing efficiency by 25% and integrating distributed data processing pipelines.
- Developed interactive dashboards in **Power BI**, providing real-time insights that enhanced decision-making for stakeholders.
- Automated data extraction and reporting workflows, reducing manual tasks by 30%.
- Collaborated with cross-functional teams to deliver data-driven solutions, ensuring high data accuracy and integrity.

EDUCATION

B.E | MVSR(OU) | CSE | **CGPA -** 8.0		*2020 - 2024*
Intermediate | Sarath Junior College | MPC | **Percentage -** 91%		*2018 - 2020*
SSC Board | Sri Chaitanya | **CGPA-** 9.7		*2018*

SKILLS

• Programming Languages	Java, Go, Python, Node.js, C++ , C#
• Backend Development	Node.js, Django, Flask, ASP.NET MVC
• Databases	PostgreSQL, MongoDB, Prisma
• Cloud & DevOps	AWS Services, Docker, Terraform, CI/CD Pipelines
• MongoDB & Prisma	React.js, HTML5, CSS3
• Tools & Version Control	Git, GitHub, Jenkins
• Data Analytics & Reporting	SQL, Power BI, Data Visualization
• API Development	RESTful APIs, GraphQL
• Agile & SDLC	Agile Methodologies, SDLC, OOP
• Problem Solving & Design	Data Structures, Algorithms, Object-Oriented Design (OOD)
• Other Tools	Unix/Linux, Terraform & CloudFormation

PROJECTS

LICENSE PLATE RECOGNITION SYSTEM (YOLOV7 & CRNN)
- Developed an end-to-end License Plate Recognition (LPR) system using **Java**, **Python**, and **Go**, integrating **YOLOv7** for object detection and OCR for alphanumeric character recognition, including Urdu script. Implemented distributed processing to handle real-time data streams effectively.
- Achieved a 15% improvement in recognition accuracy through model fine-tuning and extensive testing across diverse datasets.
- Integrated **Python**, **OpenCV**, and **EasyOCR** to create a scalable backend service for automatic license plate recognition.

FULL-STACK E-COMMERCE APPLICATION
- Designed and developed a comprehensive e-commerce web application with a **React.js** front-end and **Python Django backend**.
- Implemented secure **JWT-based** authentication, product management, and shopping cart functionalities with a **PostgreSQL** database.
- Deployed on AWS with **CI/CD pipelines** (**Jenkins**, **GitHub** Actions), reducing API response times by 25% and implementing monitoring and error-logging mechanisms to maintain stability.

PARLIAMENTARY INSIGHT – EDUCATIONAL GAME
- Developed an educational game in **Unreal Engine 5**, designed to teach Indian Parliamentary processes to school students through virtual elections, rescue missions, and quizzes.
- Utilized **C++**, **Blueprints**, **Blender**, and **Photoshop** to create an interactive virtual world that fosters learning through gamification.
- Focused on user engagement by designing immersive gameplay mechanics and ensuring the game was accessible to a wide range of users.

AIRBNB CLONE – MERN STACK
- Developed an Airbnb Clone using the **MERN** stack (MongoDB, Express.js, React, Node.js) to replicate key features like user authentication, property listings, and booking functionalities.
- Ensured a seamless user experience and efficient performance through a full-stack **JavaScript** implementation.

CERTIFICATIONS

- AWS Academy **Data Analytics**
- AWS Academy **Cloud Foundations**
- Certified Smart Coder By Smart Interviews
- GCP **Cloud Architect** (In Progress)
- Java **Backend** Developer Path (Coursera)
- AWS Academy **ML** Foundations
- **MongoDB** Node.js Developer Path
- **Kubernetes** Administrator Training Certificate
- HackerRank Software Engineer Certificate

EXTRACURRICULAR ACTIVITIES

- Member of the University **Coding Club**, participating in national-level competitions.
- Volunteer at **LIFE FOUNDATION**, providing technical support and training.
- Active member of the **NSS**, I led multiple community service initiatives

ACHIEVEMENTS

- **Ranked in top 500 - GeeksForGeeks Hackathon -** Demonstrated strong proficiency in English language, Analytical and Programming skills at international work environments.(**Rank: 486**)
- **Ranked within the top 10% on LeetCode-** demonstrating strong problem-solving skills across a range of algorithmic challenges, including **data structures**, **dynamic programming**, and **graph theory.**