Krishna Vamsi Chelluboina (He/Him)

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SUMMARY

Full Stack Software Engineer with over 2 years of experience designing, developing, and deploying scalable web applications and microservices. Proficient in Python, Java, JavaScript, React, Spring Boot, and Kubernetes with proven expertise in building RESTful APIs, implementing CI/CD pipelines, and developing cloud-native solutions on AWS. Skilled in optimizing application performance, driving cross-functional collaboration, and delivering user-centric solutions in Agile environments.

EDUCATION

St. Francis College – New York, NY
Masters MS in Information Technology | *(September 2022 – May 2025)*
GPA: 3.8 / 4.0
Bharath Institute of Higher Education and Research University
Bachelors in Electronics & Communication Engineering | *(July 2017 – November 2021*)
GPA: 7.3 / 10

TECHNICAL SKILLS

Java, Python, JavaScript, C++, Kotlin, Ruby, TypeScript, SQL, PostgreSQL, MySQL, SQL Server, Snowflake, Git, GitHub, Docker, VSCode, Visual Studio, Jira, Terraform, Power BI, Angular, React, Node.js, Spring Boot, Kubernetes, Kafka, Apache Spark, Tailwind CSS, HTML, AWS, Azure, GCP, TensorFlow, PyTorch, LangChain, OpenAI API, Hugging Face, Transformers, Agentic AI, LLMs, Retrieval-Augmented Generation (RAG)

WORK EXPERIENCE

Tata Consultancy Services – Hyderabad, India
Software Engineer | *(March 2022 – August 2023)*

- Designed and developed scalable web applications for AT&T using React, Redux, Spring Boot, and PostgreSQL.
- Built and maintained RESTful APIs for efficient frontend-backend integration.
- Migrated legacy monolithic systems to microservices using Kubernetes, enhancing system scalability and deployment speed.
- Developed CI/CD pipelines using Jenkins and Maven to automate build and release processes.
- Improved application performance with Redis caching and optimized query handling.
- Strengthened system security by implementing OAuth2-based authentication and RBAC.
- Created customer service dashboards and UI components, improving network monitoring efficiency.
- Collaborated cross-functionally with designers, analysts, and architects to deliver robust enterprise solutions.
- Conducted code reviews and mentored junior developers to ensure best coding practices and team growth.
- Integrated third-party APIs and payment gateways, expanding service capabilities.

Tech Stack: React, Redux, JavaScript, Spring Boot, PostgreSQL, RESTful APIs, Kubernetes, Maven, Redis, OAuth, CI/CD, Microservices, GraphQL, React Query.

Sutherland Global Services – Chennai, India
Python Developer Intern | *(May 2021 – February 2022)*

- Integrated third-party APIs and payment gateways, expanding service capabilities.
- Wrote backend logic, crafted SQL queries, and tested RESTful APIs for seamless data processing.
- Gained hands-on experience with debugging, Git-based version control, and Agile practices.
- Documented development workflows and collaborated with senior engineers during sprint cycles.
- Participated in daily stand-ups, sprint planning, and retrospectives to ensure timely delivery.
- Quickly adapted to new tools and demonstrated strong initiative in a fast-paced environment.

Tech Stack: Python, Flask, SQL, Git, RESTful APIs, Agile, Visual Studio Code

PROJECTS

Kwik Skill – EdTech Web Application | [Live Link] |[GitHub] | *(April 2025)*

- Engineered a role-based EdTech platform using the MERN stack, enabling course creation, enrollment, and learning progress tracking.
- Implemented dual-layered authentication (email + OTP), enhancing user security and onboarding by 30%
- Integrated Razorpay for secure payments and Cloudinary CDN for optimized media delivery, improving load times by 25%.
- Developed responsive, modular UI using React and Tailwind CSS, ensuring cross-device accessibility.

Tech Stack: MongoDB, Express.js, React.js, Node.js, Tailwind CSS, Razorpay, Cloudinary, JWT

Payment Wallet App – Digital Wallet System | [Live Link]| [GitHub] |*(March 2025)*

- Developed a digital wallet platform allowing users to add funds, make transactions, and track financial history in real time.
- Implemented JWT-based authentication and session management to enhance platform security.
- Created dynamic dashboards using React and Chart.js for intuitive transaction visualizations.
- Optimized backend APIs using Express and MongoDB for fast and reliable data access.

  Tech Stack: React.js, Node.js, Express.js, MongoDB, JWT, Chart.js, REST APIs

Hospital Management System – Appointment Booking Platform| [GitHub] | *(December 2024)*

- Designed and developed an appointment booking system enabling patients to book consultations based on doctor availability and specialization.
- Implemented secure login, patient record management, and doctor schedule dashboards using Blazor.
- Built REST APIs with C# for CRUD operations and integrated MySQL for efficient data storage and retrieval.
- Enhanced usability with real-time availability and notification systems.

  Tech Stack: C#, Blazor, REST API, MySQL, .NET Core, Visual Studio

Alert Sense – Drowsiness Detection System |[GitHub] | *(August 2023)*

- Developed an AI-powered real-time driver monitoring system to detect signs of drowsiness based on eye movement, head position, and facial expressions.
- Used computer vision with OpenCV and ML models in TensorFlow/PyTorch to identify drowsiness patterns like blinking, yawning, and nodding.
- Integrated alert mechanisms including buzzer, vibration, and on-screen warnings for safety intervention.
- Designed for real-time deployment using embedded systems with optimized video processing.

  Tech Stack: Python, OpenCV, TensorFlow, PyTorch, Computer Vision, Real-time Video Processing, Embedded Systems, Machine Learning

CERTIFICATIONS

Completed:
- Generative AI
- Certification in Microsoft Azure Fundamentals (AZ900)
- Certification in Data Analytics using R, Python, Python Data Structure. (Data Camp & Hacker Rank)

In Progress:
- Agentic AI
- AWS Certified Developer – Associate (DVA-C02)
- AWS Cloud Practitioner (CLF-C02)
- IBM Full Stack Software Developer – IBM