DEVA SAI KUMAR BHEESETTI

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OBJECTIVE

Full-stack software engineer specializing in scalable systems, backend APIs, and AI integration. Experienced in building and deploying microservices, LLM-powered applications, and automation pipelines using Python, Java, FastAPI, ReactJS, and cloud platforms like AWS and Kubernetes. Seeking a role to develop robust software solutions, optimize system performance, and integrate AI-driven features into production-grade applications.

EDUCATION

Master of Science in Computer Science, University of Massachusetts Lowell · Aug 2023 – Aug 2025
GPA: 3.94 · Coursework: Machine Learning, NLP, Computation in Health and Medicine, Human-AI Interaction
Bachelor of Technology in Electronics and Communication Engineering, K L University, India 2016 – 2020
GPA: 3.52

TECHNICAL SKILLS

Languages & Frameworks: Python, JavaScript/TypeScript, Java, SQL, C++, ReactJS, React Native, Node.js, NestJS, FastAPI, Flask
Frontend: React Native, Expo Router, Zustand, Redux, HTML5, CSS3, Responsive Design
Backend & APIs: NestJS, FastAPI, REST APIs, GraphQL, Microservices Architecture, JWT Authentication
Databases: MongoDB, PostgreSQL, MySQL, Oracle SQL, Firebase, TimescaleDB
Cloud & DevOps: AWS (EC2, S3, Lambda, SNS), Azure, Docker, Kubernetes, CI/CD, GitHub Actions, Jenkins, Vercel
AI/ML Integration: LangChain, LLaMA, GPT, RAG Systems, Hugging Face Transformers, PyTorch, TensorFlow
Tools & Automation: Git, Postman, Selenium, BeautifulSoup, Google Apps Script, Tableau, Power BI
Soft Skills: Cross-functional Leadership, Agile/Scrum, Code Review, Technical Documentation, Mentorship

EXPERIENCE

Full-Stack Software Engineer *Jan 2025 – Present*
OurFreedom.ai, New York (Remote)

- Architected a complete social graph system (Follow/Block/Private Profiles) using NestJS, MongoDB, and TypeScript with RESTful API architecture serving 100K+ relationships with 99.9% uptime.
- Built 8+ mobile screens with React Native/Expo, including Settings, Blocked Users management, Profile Actions, and Follow Requests with responsive UI/UX.
- Implemented Twilio Voice SDK integration with JWT token management, resolving authentication flow issues and race conditions.
- Developed privacy-aware backend services with dependency injection across ProfilesService, BlocksService, and FollowsService modules.
- Optimized searchUsers functionality using MongoDB aggregation pipelines, reducing profile loading time by 60%.
- Built content moderation system (POST /api/posts/:id/report) with validation and logging for admin review.
- Managed deployments and CI/CD pipeline using GitHub Actions and Vercel, conducting code reviews and providing technical leadership.

Graduate Assistant, Software Development & Data Automation *May 2024 – Aug 2025*
Manning School of Business, University of Massachusetts Lowell

- Developed FastAPI and LangChain microservices to automate academic workflows and data retrieval from internal systems.

- Built GPT-based advising assistant with ReactJS frontend integrated with RAG agent and Google Sheets API for real-time student guidance.
- Created predictive dashboards in Tableau, integrating live SQL and Sheets data; automated reporting with Google Apps Script.
- Deployed Dockerized CI/CD pipelines on Linux servers with UnitTest scripts for grading automation.
- Led web operations for Manning Industry Days using Tridion SDL, Tableau Prep, and Selenium for data pipelines and analytics.
- Reduced manual workload by 70% through automation and data-driven insights.

Senior Software Engineer (Module Lead)   *Aug 2022 – Aug 2023*
Infosys Ltd. (Client: Verizon), Hyderabad, India

- Led the core Publish Module powering Verizon's Pega Offer Management system, integrating Case, Process, and Marketing components.
- Built REST API integrations connecting ReactJS frontend with Pega Decisioning Hub for real-time offer deployment.
- Designed agent-driven automations for offer creation, validation, and migration, ensuring data consistency.
- Developed Kibana utilities for unified API logging and monitoring, improving debugging visibility.
- Resolved critical production outages, including rule-class mismatches, after Pega version upgrades.
- Mentored 4-member cross-functional team (2 onshore, 2 offshore) on best practices and troubleshooting.

Software Engineer   *Dec 2020 – Aug 2022*
Infosys Ltd. (Client: Verizon), Hyderabad, India

- Developed and optimized case types, decision tables, and business flows supporting Verizon's marketing offer lifecycle.
- Designed reusable REST/SOAP APIs for database integration and data synchronization with Oracle SQL.
- Automated repetitive processes using declarative rules, agents, and job schedulers, improving productivity by 30%.
- Logged and monitored API traffic via Kibana for better operational visibility.
- Debugged and resolved issues across environments using SQL, Postman, and Pega tools with quick turnaround times.

SELECTED PROJECTS

VitaScan / AI-Powered Symptom Checker & Health Assistant: Developed a Next.js web application and React Native mobile app with NestJS backend. Implemented AI-powered triage system using LLMs with RAG capabilities retrieving medical knowledge from CDC, WHO, and NHS sources for evidence-backed recommendations.
NeuroHandSim / Brain-Controlled Virtual Hand Simulation: Developed a brain-computer interface (BCI) system enabling real-time control of a virtual hand using MUSE EEG sensors. Implemented deep learning models to classify EEG patterns and translate neural signals into hand gestures with a real-time signal processing pipeline.
Event Management & Analytics Platform: Managed web/data operations for a 100-speaker university event using Tridion SDL, Tableau Prep, Google Apps Script, Selenium, and RealESRGAN for image enhancement with predictive attendance analytics.

CERTIFICATIONS

IBM Data Science Professional   Google IT Automation with Python
Applied AI: Building NLP Apps with Hugging Face Transformers   Pega CSSA, CPDC Certified
AWS Certified Cloud Practitioner (CLF-C02) Cert Prep

LEADERSHIP

Mentored junior engineers and interns across full-stack and AI projects; led cross-functional teams in production environments; conducted code reviews and managed deployments, ensuring high-quality deliverables.