Baratam Trivickram

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SUMMARY

Results-driven Software Engineer skilled in full-stack development, cloud-native applications, and AI-first problem solving. Proficient in Python, Java with strong foundations in data structures, algorithms, and system design. Recognized for rapid learning and problem-solving under tight deadlines, with a proven ability to own projects end-to-end and deliver production-grade, scalable solutions using AWS and modern frameworks.

EDUCATION

Vellore Institute of Technology, India   Sep 2022 – Aug 2026
Bachelor of Technology, Electronics and Communication Engineering   *8.65/10.00 CGPA*

EXPERIENCE

Cloud & Web Developer Intern | Link   May 2024 – July 2024
National Institute of Technology, Warangal
- Engineered a machine learning model using Random Forest and PCA on the UCI Parkinson's dataset, achieving 98.7% accuracy and improving early diagnosis workflow by 30% through automated prediction.
- Conducted exploratory data analysis (EDA) and model evaluation using Python, Pandas, and Matplotlib

Web Developer Intern | Link   Feb 2025 – Mar 2025
School of Electronics Engineering (SENSE), VIT Chennai
- Collaborated cross-functionally to architect and deploy the VIT-BIS Fest 2025 website, increasing accessibility by 25% and reducing bounce rate by 40% through responsive UI/UX and performance tuning.
- Improved website loading speed by 45% through lazy loading, code splitting, and asset compression; enhanced Lighthouse performance score to 95+.

PROJECTS

AI-Powered Cold Email Generator | AI/ML, Full-Stack Development, AWS | Source   July 2025 – Present
- Built full-stack AI app (React.js, Node.js, Python) using Llama LLMs, GROQ API, and ChromaDB; achieved 99.9% uptime, 60s output time, and scaled to 1000+ users.
- Developed secure RESTful API (Express.js, LangChain) with CORS, Helmet, rate limiting; deployed via CI/CD with 99.5% success rate.
- Engineered intelligent matching system using ChromaDB and BeautifulSoup with 95%+ accuracy. Enhanced UX with React Query, Framer Motion, and responsive design across 5+ devices; ensured 99.9% API availability.

Cloud-Based Food Ordering Web App | *MongoDB, Express, ReactJS, AWS* | Source   Feb 2025 – Mar 2025
- Designed a responsive food ordering platform using React.js, TailwindCSS, and Vite, improving multi-device usability by 30%.
- Implemented and deployed 10+ REST APIs using Node.js and Express.js, reducing average load time by 25% and enabling real-time order tracking.

AI-Powered Customer Analytics Dashboard | *Python, Streamlit, Plotly* | Source   Apr 2025 – May 2025
- Built an interactive Streamlit dashboard that visualized real-time churn risk, CLTV predictions, and behavior segmentation using K-Means.
- Applied PCA and regression models to analyze high-dimensional customer data.
- Integrated Pandas Profiling for automated EDA and enabled dynamic filtering using Plotly charts.

TECHNICAL SKILLS

Programming Languages: Python, R, JavaScript, Java, C++, C
Libraries & Frameworks: Pandas, NumPy, Seaborn, Streamlit, Plotly, TensorFlow, TailwindCSS
Developer Tools & Platforms: Git, GitHub, VS Code, Jupyter Notebook, Google Colab
Databases & APIs: MongoDB, RESTful APIs, DynamoDB (basic)

LICENSES AND CERTIFICATIONS | Link

- AWS Certified Cloud Practitioner | **Badge**
- Machine Learning Specialization by Stanford University | **Certificate**

ACHIEVEMENTS

- Ranked in the **top 5%** out of **8,000+ participants** in a university-wide competitive programming selection, earning **Top Coder** recognition for exceptional problem-solving and algorithmic skills.