

Baratam Trivickram

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SUMMARY

Software Development Engineer with strong foundations in Data Structures, Algorithms, and Object-Oriented Programming. Proficient in Python and Java, with experience in building scalable applications, implementing REST APIs, and deploying cloud-native solutions on AWS. Skilled in SQL, debugging, testing, and CI/CD pipelines. AWS Certified Cloud Practitioner with proven ability to deliver production-grade solutions through academic and industry projects.

EDUCATION

Vellore Institute of Technology, India

Bachelor of Technology, Electronics and Communication Engineering

Sep 2022 – Aug 2026

8.65/10.00 CGPA

EXPERIENCE

Project 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, 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 & Databases: Python, Java, SQL

Version Control: Git, GitHub

Cloud & DevOps: AWS (EC2, S3, Lambda, DynamoDB), Oracle DevOps, CI/CD

Web Technologies: HTML, CSS, JavaScript

LICENSES AND CERTIFICATIONS | [LINK](#)

- AWS Certified Cloud Practitioner | [Verify](#)
- Oracle Cloud Infrastructure Certified DevOps Professional | [Verify](#)

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.