

Baratam Trivickram

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SUMMARY

Passionate Software Engineer with hands-on experience in full-stack development, cloud-native applications, and machine learning. Proficient in Python, Java, JavaScript, and React.js, with strong foundational knowledge in data structures, algorithms, and system design. Skilled in deploying scalable solutions using AWS (EC2, S3, Lambda, IAM) and modern web frameworks like Node.js and Express.js. Developed AI-powered web applications with measurable impact, applying Agile methodologies and CI/CD practices for reliable software delivery.

EDUCATION

Vellore Institute of Technology, India

Bachelor of Technology, Electronics and Communication Engineering

Sep 2022 – Aug 2026

8.65/10.00 CGPA (JUN 2024)

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

- Architected and deployed the VIT-BIS Fest 2025 website using TailwindCSS, and SEO optimization techniques, 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](#)

Jan 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.

DevNestle – Developer Toolkit Web App | HTML, CSS, JavaScript, AWS | [Source](#)

Dec 2024 – Feb 2025

- Deployed a static web app with 12+ developer tools on AWS S3 within Free Tier limits and integrated CloudFront CDN for secure, low-latency delivery with SSL via AWS Certificate Manager.
- Implemented modular JavaScript architecture to enhance maintainability and performance; reduced initial load time by 40% through DOM optimization and resource minification.

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, C++, C, R, Assembly

Frameworks & Libraries: React.js, Node.js, Express.js, Keras, TensorFlow, Seaborn, TailwindCSS

Developer Tools: Git, GitHub, Docker, Visual Studio Code

LICENSES AND CERTIFICATIONS | [LINK](#)

- AWS Certified Cloud Practitioner | [Badge](#)
- Machine Learning Specialization by Stanford University | [Certificate](#)

ACHIEVEMENTS

- Solved 300+ problems on LeetCode, with focus on dynamic programming, recursion, graphs, and system design.