

Satyam Dwivedi

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SUMMARY

AWS Certified Computer Science student specializing in full-stack development with React, Node.js, and Flutter. Successfully built scalable applications including an e-commerce platform that automated processes and reduced backend workload by 20%. Seeking to apply technical expertise to a challenging Software Engineer position.

EDUCATION

Bachelor of Technology in Computer Science and Engineering Expected July 2026
Vellore Institute of Technology, Vellore CGPA: 8.68/10.0
Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Management Systems, Operating Systems, Artificial Intelligence

TECHNICAL SKILLS

- **Frontend:** React.js, Next.js, Flutter, HTML5, CSS3, Tailwind CSS, Bootstrap
- **Backend:** Node.js, Express.js, REST APIs, Firebase, MongoDB, Redis, MySQL
- **Languages:** JavaScript, TypeScript, C++, Python, Java
- **Tools & Platforms:** Linux, Docker, Git, Postman, Vercel, AWS (Solutions Architect Associate)
- **Core Concepts:** Data Structures & Algorithms, Generative AI, Agile Methodology

EXPERIENCE

Full Stack Developer Intern (Part-Time) September 2024 – February 2025
Nepbyte Technologies, Hybrid

- Engineered a scalable e-commerce platform for product, order, and inventory management, reducing backend workload by 20% through process automation and modular Node.js architecture
- Designed core modules for a company-wide CRM/ERP system, streamlining business workflows and reducing client onboarding costs by 15%

Web Developer January 2024 – December 2024
Advanced Developers Group, Vellore Institute of Technology

- Led a hands-on workshop for 80+ students on building a full-stack application using Next.js, Tailwind CSS, and TypeScript
- Developed a modular mailing system using Node.js to automate event announcements for 200+ members, reducing manual email preparation time by 30%

PERSONAL PROJECTS

Solar PV Placement & Hybrid Storage Optimization using ML Strategies GitHub
• Built a multi-objective optimization framework using NSGA-II to determine optimal PV tilt angles and hydrogen-battery storage sizing, maximizing energy generation while reducing overall system cost.
• Processed 5 years of NSRDB irradiance data and simulated PV output using `pvl`; applied ML models (XGBoost, Random Forest, LightGBM) for daily solar-energy forecasting and validated results with RMSE and MAPE.
• *Technologies:* Python, PVLlib, scikit-learn, XGBoost, LightGBM, Prophet, NumPy, Pandas, Matplotlib

PayNote GitHub
• Developed a cross-platform personal finance application enabling 20+ beta users to log expenses, visualize spending patterns, and manage budgets
• Implemented a secure REST API with JWT-based authentication for user data management and transaction processing
• *Technologies:* Flutter, Node.js, Express.js, MongoDB

CERTIFICATIONS

- **AWS Certified Solutions Architect – Associate** View Credential 2025
- **Oracle Cloud Infrastructure Generative AI Professional** View Credential 2025

ACHIEVEMENTS

- Participant in DevJams 48-Hour Hackathon (GDSC-VIT) 2024
- 1st Runner-Up in Clash of Bugs 2.0 (University-level Debugging Contest) 2023