SANDEEPKUMAR M D

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EDUCATION

•**Bannari Amman Institute of Technology** *2021 - 2025*
Bachelor of Technology in Computer Technology CGPA: 7.96/10.0

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, C, SQL
Frameworks: React, Node.js, FastAPI
Cloud/Databases: AWS, PostgreSQL, DynamoDB, AWS CloudWatch
AI Assistants & Coding Tools: Amazon Q Developer, Kiro AI, Spec-Driven Development using Cursor, MCP Integration
Developer Tools: GitLab, VS Code, Postman

EXPERIENCE

•**Avasoft** *March 2025 - January 2026*
Software Engineer Chennai, Tamil Nadu
- Engineered FastAPI backend for Opstream invoice system using Amazon Q Developer and Kiro AI, accelerating reconciliation by 40%.
- Architected full-stack Racpad enterprise features with React, Node.js, PostgreSQL, and AI-assisted code generation.
- Developed Absence Tracker leave management system, streamlining approvals for 500+ employees.

•**Avasoft** *September 2024 - February 2025*
Software Engineering Intern Chennai, Tamil Nadu
- Supported enterprise projects with React, Node.js frontend development and AWS CloudWatch monitoring implementation.
- Refactored 8 React components in enterprise dashboard, improving load times by 25% and enhancing user experience across 500+ employee workflows.
- Contributed to code reviews and GitLab CI/CD pipeline optimization for faster deployment cycles.

PROJECTS

•**Invoice Reconciliation System - Opstream**
AI-accelerated backend for enterprise invoice management Python, FastAPI, PostgreSQL, Amazon Q Developer, Kiro AI
- Engineered FastAPI APIs using Amazon Q Developer - reduced processing by 40%
- Optimized PostgreSQL queries with Kiro AI debugging - achieved 99% uptime
- Designed schema handling 10K+ invoices monthly

•**Racpad - Full-Stack Enterprise App**
AI-integrated enterprise workflow platform React, Node.js, PostgreSQL, AWS CloudWatch, GitLab
- Built React/Node.js features for 1,000+ daily users using AI code agents.
- Implemented AWS CloudWatch monitoring, cutting error resolution by 30%.

•**Absence Tracker: Leave Management**
Full-stack enterprise leave tracking system React.js, Node.js, PostgreSQL
- Streamlined leave approvals for 500+ employees by 25% via full-stack AWS deployment from requirements.
- Implemented secure Node.js REST APIs with PostgreSQL for real-time leave requests and notifications.
- Designed intuitive React UI with role-based access, boosting manager efficiency by 25%.

•**Blockchain E-Voting System**
Smart India Hackathon 2022 Finalist Solidity, Smart Contracts, Web3.js
- Led 6-member team to deploy Solidity smart contracts and Web3.js frontend for secure decentralized voting.
- Achieved Smart India Hackathon 2022 Grand Finale as national finalist among 2,000+ teams.

ACHIEVEMENTS

•**Smart India Hackathon 2022 Finalist**: Lead the team against 2,000+ teams nationwide *August 2022*