Balasubramanian G

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EDUCATION

National Engineering College — Kovilpatti
Bachelor of Technology , CGPA : 9.25 — *Aug. 2024 – Aug 2028*

Sivanthi Matric Higher Secondary School — Cheranmahadevi
Higher Secondary Education — *2022 – 2024*

EXPERIENCE

MM Wave radar Intern — Dec 2025 – Present
Mistral Solutions — *Kovilpatti*

- Gained hands on experience with Texas Instruments mmWave radar (AWR series), including flashing bin files, configuring radar profiles and working with different firmware versions for real-time sensing applications
- Implemented radar data acquisition and parsing using UART communication, Python/C scripts, and TLV/data frame structures. Extracted radar data, stored it in CSV format and performed visualization using Matplotlib for analysis

PROJECTS

Product Price Notifier | *Node.js, Express.js, REST APIs ,PostgreSQL* — August 2025
- Designed and implemented backend services to track product prices and user subscriptions
- Built RESTful APIs to store, retrieve and manage tracking data efficiently
- Implemented scheduled background jobs to periodically check price changes
- Integrated automated email notifications for price drops and follow-up alerts

Venue Allocation System | *Node.js, Express.js, REST APIs ,PostgreSQL* — July 2025
- Developed backend logic for a venue booking system with secure user authentication
- Implemented real-time slot availability and conflict-free booking mechanisms
- Designed relational database schemas for users, bookings and time slots
- Automated email notifications for booking confirmations

ACHIEVEMENTS

Secured **2nd Prize** in a Coding Contest conducted by the CSI Club at National Engineering College

Secured **2nd Prize** in a Web Development (Frontend) Competition conducted by the ITA

TECHNICAL SKILLS

Languages: C/C++, Python, SQL (PostgreSQL), JavaScript
Frameworks: Node.js, Express.js
Developer Tools: Git, Google Cloud Platform, VS Code, PyCharm
Libraries: pandas, Tkinter

ADDITIONAL

Completed *The Complete Full-Stack Web Development Bootcamp* by Dr. Angela Yu

Completed *Technical English for Engineers* — NPTEL (IIT Madras)