NAVEEN KUMAR M E

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EXECUTIVE SUMMARY

Backend-focused Computer Science Engineer skilled in building API-driven systems, serverless cloud workflows, and data-centric automation. Experienced in Node.js, Express, PostgreSQL, Firebase, and Google Cloud Functions with strong foundations in security, networking, and DevOps basics. Built production-style systems across learning platforms, booking automation, RBAC security, and workflow optimization demonstrate the ability to ship reliable backend solutions. And am Currently transitioning backend engineering expertise into the .NET ecosystem, actively learning C#, .NET Core, and Azure development to expand backend capabilities. Strong foundation in API design, system architecture, and cloud workflows enables fast adaptability to .NET environments.

TECHNICAL SKILLS

Programming Languages: C, Java, Python, JavaScript (Node.js), SQL
Backend & Systems: Node.js, Express.js, REST APIs, OOP, Multi-threading basics
Databases & Data: PostgreSQL, SQL (joins, transactions), Data Lakes (conceptual), Databricks (intro familiarity)
Cloud & Infrastructure: Azure (foundational), GitHub Actions (CI/CD), Basic DevOps workflows, Container fundamentals
Tools & Versioning: Git (version control), GitHub, VS Code, Postman, Linux/WSL
Architectural Awareness: Microservices basics, API Design, Systems Thinking

EXPERIENCE

Deloitte Australia Technology Job Simulation on Forage - December 2025

- Completed a job simulation involving development and coding
- Wrote a proposal for creating a dashboard

Backend Engineer — Self-Driven Engineering   (Jan 2024 – Present)

• Designed modular backend architectures using Node.js, Express, PostgreSQL, and Firebase.
• Developed REST APIs and serverless workflows used by real users.
• Implemented secure authentication systems reducing unauthorized access risks.
• Built automation workflows reducing manual administrative tasks by 60–80%.
• Optimized Firestore/PostgreSQL read/write patterns.
• Integrated GitHub workflows improving code reliability.

PROJECT EXPERIENCE

1.Exam Hall Seat Allocation Automation——————————— (Sept 2025 - Present)

- • Designed hall-allocation algorithm mapping 1000+ students.
- • Automated Excel/PDF export pipeline reducing planning time by 70%.
- • Built admin workflows for bulk processing.
    Skills: Node.js, Express, PostgreSQL

2.Role-Based Access Control (RBAC) System ———————————— (Sept 2025)
   • Built multi-level permission hierarchy with secure JWT authentication.
   • Enhance user/role management APIs and route protection.
      Skills: Node.js, Express, PostgreSQL, JWT
3.TurfZone – Real-Time Turf Booking System ——————————(Aug 2025- Oct 2025)
   • Engineered slot-locking algorithm preventing double-booking.
   • Automated notifications and booking confirmation flow.
   • Added dynamic admin configuration features.
      Skills: Node.js, Express, Postgres
4.AI-Powered Adaptive Microlearning Platform—————————— (Dec 2024-Aug 2025)
   • Delivered personalized modules to 100+ potential student users.
   • Implemented real-time tracking using Firestore.
   • Built secure role-based access and deployed on Firebase Cloud Functions.
      Skills: Node.js, Express, Firebase, GCP

CERTIFICATIONS

• Cyber Security and Privacy — NPTEL (2025)
• Masters in Essential DevOps — GUVI (2024)
• Introduction to Networking — NVIDIA (2024)
• AI for All: Basics to GenAI — NVIDIA (2024)

EDUCATION

Bachelor of Computer Science and Engineering   (2024–2028)
 Nandha Engineering College, Erode

SOFT SKILLS

      •Teamwork
      • Problem-Solving
      • Adaptability
      • Communication
      • Time Management