

# NAVEEN KUMAR M E

Backend & Cloud Engineer (Fresher)

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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—demonstrating the ability to ship reliable backend solutions.

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## TECHNICAL SKILLS

**Languages:** JavaScript, Python, C/C++, Java

**Backend:** Node.js, Express.js, REST APIs, Serverless Functions

**Cloud & DevOps:** Firebase, Google Cloud, Azure (Containers), Git, GitHub

**Databases:** PostgreSQL, Firebase Firestore

**Security:** JWT Auth, RBAC, Firebase Auth

**Tools:** AdminLTE, ExcelJS, Postman, Figma

**Core Knowledge:** Data Structures, Networking Basics, Problem Solving, CI/CD Fundamentals

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## ENGINEERING EXPERIENCE

**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.

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## PROJECT EXPERIENCE

**1.Exam Hall Seat Allocation Automation** — (Nov 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** — (Nov 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  
**Nandha Engineering College, Erode**

(2024–2028)

### SOFT SKILLS —————

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