GOKUL KARUNAHARAN

Backend Engineer (Student)

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PROFESSIONAL SUMMARY

Backend Developer proficient in **Spring Boot** and Node.js with hands-on experience building RESTful APIs, authentication systems, and database-driven applications. Completed backend internship implementing JWT authentication, role-based access control, and JPA/Hibernate ORM with PostgreSQL. Deployed projects on Azure App Service, Railway, and NeonDB. Strong foundation in data structures and algorithms.

EDUCATION

Bachelor's Degree in Computer Science and Engineering (2022 – 2026) (8.0 CGPA)
University College of Engineering Nagercoil

Schooling (HSC-89%)
DVD Higher Secondary School, Nagercoil

SKILLS

- **Backend Development:** Spring Boot, Express.js, RESTful API Design, JWT Authentication, Spring Security, Role-Based Access Control (RBAC), JPA/Hibernate ORM
- **Frontend Technologies:** React(Basics), React Native (Basics), HTML5, CSS3, JavaScript, Tailwind CSS
- **Database Management:** PostgreSQL, MySQL, Microsoft SQL Server, Database Design
- **Cloud & Deployment:** Microsoft Azure, Railway, NeonDB, Vercel
- **Development Environment:** Ubuntu Linux, Command-Line Tools, Git Bash, Terminal, SSH
- **Programming Languages:** Java(Primary), JavaScript, Python, C/C++
- **Tools & Technologies:** Git/GitHub, Postman, Maven, Zoho Cliq (Extension Development), Figma
- **Problem Solving:** Data Structures & Algorithms, LeetCode Practice, System Design Principles.

COURSES

- **Mastering Data Structures & Algorithms using C and C++** - (Udemy, February 2025) Instructor: **Abdul Bari** CERTIFICATE-LINK

- **Java for Programmers Crash Course** (Udemy, Aug 2024) CERTIFICATE-LINK

- **Programming, Data Structures & Algorithms using Python** - (NPTEL, Jan-Mar 2024) CERTIFICATE-LINK

PROJECTS

QuickFind - Search Extension | Zoho Cliqtrix Hackathon

Technologies: Zoho Deluge, Google Gemini API, GitHub API, Dropbox API, OneDrive API, OAuth 2.0, REST APIs
View Extension: cliq.zoho.com/installapp.do?id=8160

Developed a search extension integrating **GitHub**, **Dropbox**, and **OneDrive** REST APIs with **OAuth 2.0** authentication and **real-time metadata retrieval**.Implemented AI-powered natural language search using **Google Gemini API** and built a backend with slash commands, bot handlers, and caching in Zono Cliq's platform database using Zoho Deluge(Zoho's scripting language).

Social Media Platform | Spring Boot & PostgreSQL

Technologies: Springboot, PostgreSQL, React, Postman

Live Demo: Live Application →

Developed full-stack social media application using **Spring Boot**, **PostgreSQL**, and **JWT authentication** with **role-based security** and RESTful APIs. Implemented user management, post creation, follow/unfollow functionality, and real-time commenting system. Built **JPA/Hibernate** database relationships and deployed frontend on **Vercel**, backend on **Microsoft Azure**, and PostgreSQL database on **NeonDB** ensuring cross-platform performance.

AI-Powered Task Management Application | Full-Stack Development

Technologies: Node.js, Express.js, Google Gemini 2.0 Flash API, HTML5, CSS3, JavaScript, Postman

Live Demo: Live Application →

Built full-stack task management app with Node.js, Express.js, and Google Gemini API converting natural language to organized task lists, with responsive UI and Postman-tested RESTful APIs

Frontend Game Application | JavaScript & Tailwind CSS

Technologies: JavaScript, Tailwind CSS, HTML5, LocalStorage API

Live Demo: Play the Game →

• Built mobile-first responsive game interface using Tailwind CSS with breakpoint-specific styling and component-based design
• Implemented JavaScript game logic with localStorage persistence, DOM manipulation, event-driven architecture, and dynamic content rendering

EXPERIENCE

Backend Developer Intern | ALO INFOTECH, Nagercoil (JUNE 2025 - JULY 2025)

Developed **authentication systems** using JWT-based user authentication with **role-based authorization** in Spring Boot framework. Implemented secure backend architecture with **token validation**, user role management, and API endpoint protection ensuring robust application security and seamless user access control