

ARYAN BOKOLIA

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[LinkedIn](#) | Location: Mangaluru, India

EDUCATION

National Institute of Technology Karnataka (NITK), Surathkal Aug 2024 – Present

B.Tech in Computer Science and Engineering

Mangaluru, India

- Focusing on foundational excellence in Data Structures & Algorithms, Digital Logic, and Linear Algebra.

Vanasthali Public School

Jun 2015 – Jun 2024

High School - 12th Standard: 95.4%, 10th Standard: 98.6%

India

TECHNICAL SKILLS

Programming Languages: C, C++, Python, JavaScript, HTML5, CSS3, SQL (MySQL)

Web Development & Frameworks: React.js, Next.js, Node.js, Express.js, Vite, Tailwind CSS, Full Stack Development

AI & Machine Learning: Generative AI, Large Language Models (LLM), Retrieval-Augmented Generation (RAG), Agentic AI

Database & Backend: Firebase, MySQL, RESTful APIs, Backend Development

Tools & Technologies: Git, GitHub, VS Code, Kali Linux, Version Control, Logisim, Verilog

Core Competencies: Data Structures, Algorithms, Problem Solving, Digital Logic Design, Finite State Machines, Team Leadership

PROJECTS

Finsight - Personal Finance Analyzer | *React.js, Vite, Express.js, Firebase, Google Auth, OCR* GitHub

- Architected a secure full-stack application leveraging Optical Character Recognition (OCR) and Google Authentication to protect sensitive financial data.
- Automated expense tracking by developing an AI-driven scanning module, effectively converting raw receipts into structured visual insights and analytics dashboards.
- Spearheaded technical decision-making for backend security protocols using Express.js and Firebase integration for real-time data synchronization.
- Implemented responsive front-end design with React.js and Vite for optimal user experience across devices.

AeroNITK Club Website | *React.js, Vite, Tailwind CSS*

GitHub

- Led the design and end-to-end development of the official website, establishing the club's first digital identity and online presence.
- Collaborated with cross-functional club leads to centralize activity tracking, event management, and project showcases, resulting in enhanced member outreach and recruitment efficiency.
- Developed responsive and mobile-friendly interface using Tailwind CSS for seamless user experience.

Traffic Light Controller | *Verilog, Logisim, Finite State Machine (FSM)*

GitHub

- Engineered a Finite State Machine (FSM) based traffic light controller, solving complex logic requirements for synchronized vehicular and pedestrian safety systems.
- Optimized intersection efficiency by implementing dual-mode sensor logic, significantly reducing idle wait times through prioritized pedestrian override mechanisms.
- Designed and simulated digital circuits using Verilog HDL and validated functionality through Logisim testing environment.

EXPERIENCE & LEADERSHIP

Indian Society for Technical Education (ISTE) NITK

Aug 2024 – Present

Executive Member - Technical Team

Mangaluru, India

- Coordinated technical initiatives and workshops for 200+ student members, fostering skill development in emerging technologies.
- Collaborated with cross-functional teams to organize technical events and coding competitions.

Team AeroNITK & TEDxNITK Surathkal

Aug 2024 – Present

Web Developer

Mangaluru, India

- Served as primary Web Developer, designing and maintaining official websites for both organizations.
- Mentored junior members in web development best practices, React.js, and modern frontend technologies.

ACHIEVEMENTS & CERTIFICATIONS

Academic Excellence: Achieved 95.4% in 12th Standard and 98.6% in 10th Standard

Professional Certifications: Earned 5 professional certificates in Artificial Intelligence and Web Development, demonstrating commitment to continuous learning and skill enhancement

Technical Leadership: Successfully led multiple web development projects for campus organizations, delivering production-ready applications

Collaborated with cross-functional teams to organize technical events and coding competitions