Prajesh Dutta

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SKILLS

Programming Languages: *Python, Java, JavaScript, R, C/C++ (learning), Shell Scripting*

Web Development: *HTML, CSS, ReactJS, Bootstrap, Tailwind CSS, Node.js, Express.js, RESTful APIs*

Database Management: *MongoDB, SQLite, PostgreSQL, PL/SQL*

DevOps & Cloud: *AWS, Azure, Google Cloud, Heroku, CI/CD, Docker*

Cybersecurity: *Penetration Testing, Web Security, Network Security, Wireshark, Burp Suite, Metasploit, Nmap*

Development Practices: *Agile Methodologies, Git, GitHub, Test-Driven Development, Linux Administration*

PROJECTS

Netclicks – Full-Stack Streaming Platform ⬈   Apr 2025
Tech Stack: Next.js, React, TypeScript, Tailwind CSS, MongoDB, NextAuth.js, Docker
- *Enterprise Authentication System* – Implemented secure **Google and GitHub OAuth** protocols with **NextAuth.js**, ensuring robust user identity verification.
- *Responsive Video Streaming Interface* – Developed custom video player with adaptive controls using **React** and **TypeScript**, optimizing user experience across all devices.
- *Advanced UI/UX Design* – Created visually appealing interfaces with **Tailwind CSS** and **shadcn/ui** components, including seamless dark mode support and smooth **Framer Motion** animations.
- *Secure Data Architecture* – Built protected API routes with proper validation using **Next.js** and connected to **MongoDB** database with optimized query patterns.
- *Containerized Deployment* – Utilized **Docker** for application containerization and deployed on **Digital Ocean** with automated CI/CD pipeline for seamless updates.

VisageKey – AI-Powered Facial Authentication System ⬈   Dec 2024
Tech Stack: React.js, Node.js, Express.js, face-api.js, Tailwind CSS, Vite
- *High Accuracy Facial Authentication* – Achieved **99% recognition accuracy** using **face-api.js**, ensuring secure and reliable user authentication.
- *Real-time Face Detection* – Implemented fast and efficient face recognition with minimal false positives, enhancing login security.
- *Optimized Performance* – Used **Vite** to improve build times by **30%**, ensuring a smooth development experience.
- *Scalable & Responsive Design* – Built a modern and responsive UI with **React.js** and **Tailwind CSS**, providing seamless user experience across devices.
- *Secure Backend API* – Developed a **Node.js** and **Express.js** backend for handling authentication requests efficiently.
- *Deployment & Scalability* – Hosted on **Vercel**, enabling fast, reliable, and globally accessible authentication services.

ACHIEVEMENTS

4-star on **CodeChef** Rating **1870** (username: *prajesh22* ⬈)

EDUCATION

B.Tech, Computer Science and Engineering   2022 – 2026 | Vellore, India
Vellore Institute of Technology, Vellore ⬈
  Pre Final year Student

VOLUNTEERING

IEEE Computer Society - VIT Student Chapter ⬈   Apr 2023 – present | Vellore, India
Senior Core Committee Member
- Coordinated sponsorships and managed event logistics
- Conducted hackathons during Gravitas and Riviera

VIT Blockchain Community   Apr 2023 – Apr 2024 | Vellore, India
Junior Core Committee Member
- Assisted in growing a newly founded blockchain club
- Conducted events on DeFi, Cryptocurrency, and Smart Contracts
- Managed sponsorships and event logistics

CERTIFICATES

AWS Certified Solutions Architect – Associate ⬈ (*Amazon Web Services Training and Certification*), **Microsoft Certified: Azure Developer Associate** ⬈ (*Microsoft*), **MongoDB Certified Associate Developer** ⬈ (*MongoDB*), **Microsoft Certified: Azure AI Fundamentals** ⬈ (*Microsoft*), **GitHub Foundations** ⬈ (*GitHub*), **The Bits and Bytes of Computer Networking** ⬈ (*Coursera- Google*), **NDG Linux Unhatched** ⬈ (*Cisco Networking Academy*), **Network Defense Essentials (NDE)** ⬈ (*EC-Council*), **Ethical Hacking Essentials (EHE)** ⬈ (*EC-Council*)