

MUKKA NITHIN

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About me

I'm Mukka Nithin, a Computer Science undergraduate at VIT Chennai, driven by a passion for problem-solving and software engineering. Currently interning at Dell Technologies, I'm working on backend development, test automation, and data visualization. I enjoy building reliable, scalable systems and thrive in fast-paced engineering environments.

Professional Experience

Dell Technologies

May 2025 – July 2025

Undergraduate Intern – PowerProtect Data Domain (PPDD)

Onsite/India

- Implemented a scheduled **Jenkins CI/CD job** using **Groovy** to automate unit test suites daily, achieving **100% automation** and enhancing the internal testing framework (MATE).
- Integrated **memory leak detection** into MATE, **reducing manual debugging time by 70%**, and automated test metadata extraction (**JSON to MySQL**), **reducing manual effort by 80%**.
- Developed backend **REST APIs (Flask)** for streamlined data access and designed dynamic **Grafana dashboards** to visualize test pass/fail trends, improving release confidence and tracking.

Education

Vellore Institute of Technology

September 2022 – June 2026

Bachelor of Technology - Computer Science and engineering CGPA: 9.20

Chennai, Tamilnadu

Sri Chaitanya Junior College

June 2020 – May 2022

Stream: Maths, Physics and Chemistry; Score: 98.3%

Khammam, Telangana

Projects

Profoot | ReactJS, NodeJS, MongoDB, Tailwind CSS

Feb 2025

- Engineered a full-stack football analytics platform integrating personalized training/diet plans, injury tracking, and interactive performance dashboards.
- Developed a community forum within the platform (React, Node.js) to facilitate user interaction and support.
- 🔗 github.com/NithinMukka/Profoot

Smart Airlift Router | ReactJS, TypeScript

September 2024

- Developed a web application using the **A* pathfinding algorithm** to calculate optimal airlift routes between global airports.
- Integrated dynamic routing based on user-selected priorities (distance, fuel, weather) and real-time weather updates to avoid hazardous conditions.
- Designed and implemented a visual interface (**React, SVG, TypeScript**) displaying the network map, routes, and aircraft movement for intuitive user interaction.
- 🔗 github.com/NithinMukka/Smart-Router

QR Code Generator | Tailwind, ReactJS, APIs

May 2024

- Developed a responsive web application converting text inputs to QR codes, handling over **1000 requests daily**.
- Integrated external APIs to guarantee **99.9% accuracy** in QR code generation.
- Optimized frontend performance by **40%** through efficient state management and lazy loading techniques.

Technical Skills

Languages: C++, JavaScript, Python, C, SQL, HTML, CSS

Developer Tools: Github, VS Code, IntelliJ, DevC++

Technologies and Frameworks: React JS, MongoDB, NodeJS, ExpressJS, Tailwind CSS, Bootstrap, Flask, Git

Soft skills: Project management, Leadership, Technical Writing, Teamwork