

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

- Contributed to the internal testing framework **MATE (Majestic Test Engine)**, executing over **200+ unit test cases** for the PPDD backup product, enabling robust quality validation.
- Integrated **memory leak detection** into MATE (Majestic Test Engine), reducing manual debugging time from hours to minutes and accelerating issue identification by **70%**.
- Built backend REST APIs using **Flask** to support internal tools, streamlining access to test and log data for QA and Dev teams.
- Automated extraction and insertion of test metadata from **JSON files** into a **MySQL** database, reducing manual effort by **80%**.
- Designed and deployed a dynamic **Grafana dashboard with multiple panels** to visualize test pass/fail counts and percentages over time. Enabled **weekly, monthly, and quarterly trend analysis** using time-series charts, improving release confidence and test reliability tracking.
- Implemented a scheduled **Jenkins CI/CD job** using **Groovy** to run unit test suites daily, achieving **100% automation**.

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

QR Code Generator | *Bootstrap, ReactJS, APIs*

May 2024

- Developed a responsive web tool that converts text to QR codes, processing over 1000 requests daily.
- Integrated external APIs to ensure 99.9% accuracy in QR code generation.
- Optimized load time by 40% through efficient state management and lazy loading techniques, driven by my self-driven and eager to learn attitude.

Schedule Generator | *ReactJS, NodeJS, ExpressJS, MYSQL, TailwindCSS*

October-November 2023

- Engineered a web application to generate customized schedules, improving time management efficiency by 30%.
- Implemented RESTful APIs using Node.js and Express.js, enabling seamless data flow between frontend and backend.
- Designed an intuitive UI with Tailwind CSS, increasing user engagement by 25%.

- Developed an application that calculates water footprints to produce or manufacture our daily used products, demonstrating strong ownership and passion for quality.
- Implemented data persistence using MongoDB, reducing calculation time by 50%.
- Collaborated in a team of 4 to design and develop the application, reflecting my love for building software and working in teams.

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