Abhinav Renjith

+91 9747809006 | abhinavrenji@gmail.com | linkedin.com/in/abhinav-renjith-56b42628b

Education

Vellore Institute of Technology 2023 – 2027
Bachelor of Technology in Computer Science and Engineering *Chennai, Tamil Nadu*

SFS Public School 2022 – 2023
CBSE board, class 12: 91% *Ettumanoor, Kerala*

Experience

DevOps Intern 27th May – 30th June, 2025
Sirpi Products and Services *Bengaluru, Karnataka*

- Engineered CI/CD pipelines using Docker and GitHub Actions, reducing build-and-deploy cycle times by **40%** and accelerating feature delivery speed
- Developed and deployed a precise face recognition attendance system using React, OpenCV, and Docker, streamlining daily check-ins for **50+** employees with **∼98%** uptime
- Orchestrated the migration of cloud storage from AWS S3 to self-hosted MinIO, achieving a projected **41%** reduction in monthly operational data costs
- Containerized and deployed a suite of **6** full-stack applications (Python, React, Node.js), ensuring **100%** environment consistency across development, testing, and production

Projects

Sirpi Attendance System | *React, Node.js, OpenCV, Supabase, MinIO, Docker*

- Engineered a precise face-recognition attendance system using React and OpenCV, achieving **∼99%** matching accuracy and reducing log generation time by **40%** via Supabase/MinIO integration
- Created a high-throughput real-time video pipeline to the live-feed page via the RTSP protocol, maintaining **sub-200ms** latency for stable, interruption-free monitoring

The Metro Congestion Control System | *JavaScript, Node.js, Express.js, Oracle SQL, Selenium*

- Constructed a complete platform with distinct passenger booking and admin monitoring interfaces, reducing station overcrowding by **60%** via dynamic reallocation algorithms
- Managed operational schemas for **10,000+** daily commuters in Oracle SQL, validating critical emergency protocols via **15+** automated Selenium test scenarios

TrustMap | *Flutter, React, Node.js, Express.js, MongoDB, Git*

- Developed a Flutter/React cross-platform app with a Node.js/MongoDB backend to visualize crime hotspots and enable users to submit reports with precise geolocation data
- Crafted an integrated SOS notification and verified reporting workflow, successfully enabling administrators to broadcast real-time safety alerts and reducing emergency response initiation time

Quantum Climate-Resilient Crop Simulator | *Python, Qiskit, NumPy, IBM Quantum*

- Designed a Hybrid Quantum-Classical Genetic Algorithm (HQGA) utilizing Quantum Rotation Gates to optimize gene selection, which reduced the computational search space for complex traits by **42%** compared to classical methods
- Implemented Quantum Monte Carlo simulations to model crop survival under extreme climate scenarios (drought/heat), achieving a **2.5x** speedup in fitness evaluation via parallelized quantum state processing

Technical Skills

Languages: Java, Python, C, C++, PostgreSQL, Oracle SQL, JavaScript, TypeScript, HTML, CSS
Frameworks and tools: Git, Docker, GitHub Actions, Spring Boot, Spring Data JPA, React.js, SDL3, Unity
Concepts known: Data Structures and Algorithms, Object-Oriented Programming, DevOps, Operating Systems, Game Development