Nikhil Sudhan J

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About Me

I'm an enthusiastic and curious individual passionate about hacking, mechatronics, and everything tech. I love what I do—and I do what I love. Always eager to explore, learn, and build, I enjoy connecting with like-minded people and working on exciting, meaningful projects that push boundaries.

Education

Kalasalingam Academy of Research and Education, Computer Science and Engineering   Expected April 2026

- GPA: 7.02/10
- **Coursework:** Natural Language Processing, Computer Networking, Penetration Testing

Experience

Software Engineer Intern, Sonata Software – Chennai, CA   May 2024 – June 2024

- Developed an OCR pipeline using Tesseract for structured text extraction.
- Collaborated in a 3-member team to optimize document processing speed by 25

Software Engineer Intern, Wipro –Bangalore, WA   May 2023 – June 2023

- Containerized Web Applications Deployed using Kubernetes on cloud clusters in Google Cloud Platform.
- Implemented GitOps workflow for automated CI/CD pipeline.
- Wrote deployment and scaling scripts to improve uptime and reduce manual effort.

Projects

Video Face Manipulation Detection Through Ensemble of CNNs

- Trained ensemble models (ResNet and MesoNet) on the FaceForensics++ dataset.
- Achieved 92 percent accuracy on validation set by applying preprocessing and augmentation.

Autonomous Drone

- Designed and built a GPS-enabled drone with ArduPilot and Mission Planner.
- Configured waypoint-based autonomous navigation using the MAVLink protocol.
- Calibrated sensors and tuned PID values for stable flight.

AI-integrated UAV Aerial System

- Designed a simulation environment in ROS2 to visualize UAV flight paths.
- Processed user input through the SQLite + OpenAI API to trigger drone actions in simulation.
- Generated GeoJSON paths and visual feedback for mission planning.

Name Drop for Android

- Developed a Flutter application simulating iOS's NameDrop feature, compatible with both iOS and Android platforms.
- Enabled communication with contacts via NFC, Bluetooth, and ultrasound in mobile devices

Skills

Security Tools: Wireshark, Burp Suite

Programming Language : Python, C, C++, Flutter, SQL

Cloud & DevOps: Google Cloud Platform, Kubernetes, Git, GitOps, CI/CD

Robotics Simulation: ROS2, MAVLink, ArduPilot, Mission Planner, Gazebo

Others - 3D Modeling (Fusion 360), Linux, OpenAI API