Arnav Jain

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Education

RV University — Bengaluru, KA
B. Tech (Hons.) in Computer Science and Engineering — *Sept. 2023 – June 2027*
Major in Cybersecurity, Minor in FinTech — *CGPA: 8.93/10*

Experience

Intern Software Engineer — June 2025 – Aug. 2025
Bitcot Technologies — *Chennai, TN*

- Built and deployed 10+ automation workflows using n8n, integrating REST APIs and LLM-based agents
- Designed scalable pipelines combining business logic, external APIs, & AI agents, reducing manual effort by ~50%
- Implemented autonomous agents capable of multi-step reasoning, API orchestration, and task execution
- Tested, documented, and optimized workflows for reliability and production readiness

Summer Intern — June 2024 – Aug. 2024
Centre of IoT and Edge Computing, RV University — *Bengaluru, KA*

- Developed a real-time traffic signal optimization system using computer vision to improve efficiency in peak hours
- Implemented real-time image acquisition and processing using Raspberry Pi 5 and Camera Modules
- Applied OpenCV-based edge detection to estimate vehicle density and dynamically adjust signal timing

Projects

Impact Scan – AI-Powered Code Security Analysis Framework | *Python* — Dec 2025 – March 2026

- Engineered a security analysis pipeline integrating static code analysis and dependency vulnerability scanning
- Developed AI-assisted remediation workflows using LLMs to generate context-aware fixes for vulnerabilities
- Enabled report generation in SARIF and HTML formats for integration into CI/CD pipelines and audit workflows
- Designed multi-interface system (CLI, TUI, Web UI) for scalable security analysis across codebases

Automated Marksheet Grading | *Python, Next.js* — March 2025 – April 2025

- Built an end-to-end automated evaluation platform for exam marksheets, reducing manual time spent by ~75%
- Trained a YOLOv8 model on a custom annotated dataset to detect student identifiers and question-wise marks with ~90%+ accuracy
- Developed a CNN for handwritten digit recognition achieving ~92% accuracy
- Built a Next.js frontend to process bulk uploads and generate downloadable Excel reports

Health Risk Prediction System | *Python, Flask* — Feb. 2025 – March 2025

- Built a full-stack ML-based web application for early health risk prediction with ~85% model accuracy
- Implemented a secure Flask backend managing 100+ user records with authentication and role-based access
- Automated risk inference and reporting, reducing manual analysis effort by ~60%

Technical Skills

Languages: Python, C, JavaScript, SQL, Solidity
Frameworks: Flask, Next.js, Bootstrap
Databases: MySQL, SQLAlchemy, SQLite, gMongoDB
Developer Tools: Git, GitHub, Git Actions, Docker, AWS, VS Code
Libraries: NumPy, Pandas, OpenCV, Matplotlib, Tensorflow, PyTorch
Automation & AI: n8n, REST APIs, Generative AI, AI Automation

Positions of Responsibility

Vice President — July 2024 – Present
CyberSec - The Cybersecurity Club — *RV University*

Achievements

- **1st Place – Luminus Techfest CTF, RNSIT** – April 2026
- **2nd Place – PhaseShift CTF, BMSCE** – Sept. 2025
- **1st Place – RVCE CTF** – April 2025
- **US President's Education Award** – 2016