NISHANT PURANIK

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Education

University of Western Ontario   *Expected Graduation 2027*
BESc in Software Engineering + Honors Co-op, Cum. GPA: 3.7
- **Relevant Courses:** Algorithms & Data Structures, Database Management Systems, Operating Systems, Software Design, Applied Statistics & Data Analysis, Computer Networks Applications, Software Project & Process Management

Experience

Software Engineering Intern | VERYON, United Kingdom   *May 2025 - August 2025*
- Resolved client-reported issues daily for Tracking+ aviation fleet management platform, strengthening platform reliability and ensuring higher customer satisfaction across 7600+ global aviation/aerospace companies
- Optimized SQL queries and leveraged Report Builder to streamline aircraft maintenance reports, reducing query runtime by 40% and enabling faster data-driven decisions for enterprise operations
- Collaborated with development, QA, and product teams to triage and resolve 50+ high-priority bugs, cutting average resolution time by 20% while improving workflows across multiple product modules

Non-Revenue Vehicle Fleet Analyst Intern | Metrolinx GO Transit, Canada   *May 2024 - August 2024*
- Developed a Python + Excel booking tool to replace an outdated manual scheduling system, cutting scheduling time by 58% and freeing staff to focus on higher-value fleet management tasks
- Led the NRV bookings modernization project with senior colleagues, streamlining reservation workflows and achieving company-wide adoption of the new system across all departments
- Reduced NRV downtime by 12% year-over-year by managing 407 transponders, CVOR records, and device installations, and ensuring compliance through data analysis with GeoTab

Projects

Phish Sense – AI Phishing Detection System   *September 2025 - Present*
- Developed an AI-based phishing detector with PyTorch and DistilBERT, achieving 90%+ accuracy on benchmark datasets and integrating SHAP for explainable results
- Built a FastAPI backend with PostgreSQL to log predictions and serve results to a React + Tailwind dashboard and a Chrome browser extension for real-time email scanning
- Containerized the system with Docker and implemented a GitHub Actions CI/CD pipeline, ensuring scalable deployment and reliable automated testing

Aviation Fleet Management Database – MySQL + Web Application   *August 2025 – September 2025*
- Led development of a database system for fleet operations, designing the schema (3NF) and implementing MySQL triggers, stored procedures, and constraints to enforce data integrity and generate operational reports
- Built a Flask-based web interface with HTML/CSS/JavaScript, enabling users to query fleet records, update maintenance logs, and access real-time dashboards

Real-Estate Management System – Full-Stack Desktop Application   *January 2025 - March 2025*
- Built a full-stack JavaFX desktop application with Derby DB integration, adding secure login, role-based access, and property data management to simulate real-world real estate workflows
- Led a team of 3 aspiring computer science students, delegating tasks in UML and use case diagram creation, database modeling, and feature design, while mentoring them and reviewing deliverables with professional engineers
- Developed core frontend and backend modules, integrating property records and conducted functionality testing to ensure a scalable, maintainable system

Skills

- **Languages:** Python, Java, C++, JavaScript, TypeScript, SQL, C#, HTML, CSS
- **Frameworks & Libraries:** React, Node.js, Tailwind CSS, FastAPI, PyTorch, Hugging Face, Pandas, NumPy, scikit-learn
- **Databases & Cloud/DevOps:** PostgreSQL, MySQL, Docker, AWS, REST APIs, CI/CD pipelines, Linux/Unix
- **Tools & Analytics:** Git, Jira, Confluence, PowerBI, Tableau, Excel (VBA), Figma, Unit Testing (Pytest, JUnit)