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:** Data Structures & Algorithms, 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*
- Identified inefficiencies in a manual vehicle scheduling process and built a Python and Excel booking tool that cut scheduling time by 58%, freeing staff to focus on higher-value fleet management tasks
- Initiated and led the NRV bookings modernization project, partnering with senior colleagues to streamline reservation workflows and achieve company-wide adoption of the new system
- 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

Real-Estate Management System – Full-Stack Desktop Application   *January 2025 - March 2025*
- Built a scalable 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

Vehicle Booking System – Fleet Scheduling & Analytics System   *May 2024 - August 2024*
- Designed and developed a Python-based fleet management system that optimized vehicle assignments and booking efficiency through multi-factor optimization algorithms
- Built an interactive Streamlit web interface with Plotly dashboards, enabling real-time monitoring of fleet status, performance metrics, and booking operations
- Integrated Excel import/export using Pandas and OpenPyXL to streamline data entry and reporting, while implementing SQLite for lightweight database persistence

Skills

- **Languages:** Python, Java, C++, C#, JavaScript, TypeScript, SQL, HTML, CSS, MATLAB
- **Tech Stack:** TensorFlow, Keras, Hugging Face, scikit-learn, FastAPI, Pandas, Next.js, Node.js, Flask, PyTest, JUnit, Plotly
- **Databases & Cloud/DevOps:** PostgreSQL, MySQL, SQLite, AWS, Docker, Kubernetes, GitHub Actions (CI/CD), Swagger
- **Tools & Analytics:** Git, Jira, Power BI, Tableau, Excel, Figma, MLflow, Weights & Biases, Agile/Scrum methodology