

# Nitish Panesar

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## EDUCATION

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### University of Waterloo

*Bachelor of Environmental Studies in Geomatics*

Sep. 2024 – April 2029

Waterloo, ON

- Cumulative GPA: 3.92/4.0
- Pursuing Computing Minor: Data Structures, Algorithms, Operating Systems, OOP

## PROJECTS

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### Cogniroute | *Next.js, Typescript, Tailwind CSS, PostgreSQL, Leaflet*

June 2025 – Present

- Developed and deployed a B2B logistics SaaS platform managing 50+ drivers and 250+ weekly shipments, enabling trucking companies to digitize 100% of dispatch operations and automate the processing of shipment updates, driver assignments, and status changes
- Onboarded a local trucking company (10+ vehicles) as a pilot customer, generating \$2.5k ARR and decreasing manual dispatch planning from 3 hours to under 1 hour per day by automating shipment assignment, route tracking, and driver scheduling
- Built secure authentication with JWT-based login and role-based access control to ensure data security across customers
- Implemented a multi-tenant invoice generator using PDF-lib and automated file handling, supported by a robust PostgreSQL schema for scalable logistics operations

## EXPERIENCE

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### Grade 11 & 12 STEM Tutor

May 2024 – Present

- Tutored high school students in AP/IB Computer Science and Ontario 12U STEM courses including Advanced Functions (MHF4U), Calculus & Vectors (MCV4U), Biology, and Chemistry
- Supported 20+ students with final exam review leading to significant grade improvements

## TECHNICAL SKILLS

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**Languages:** JavaScript, TypeScript, Python, SQL, C++, C, HTML, CSS

**Libraries/Frameworks:** React.js, Next.js, Node.js, React Native, Django, Flask, Tailwind CSS

**Databases/Cloud:** PostgreSQL, SQL Server, MongoDB, Redis, Google Cloud, AWS, Vercel