

# Nigel Groen

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## EDUCATION

### Queen's University

*Bachelors (Honours) in Computer Science, Certificate in Commerce, CGPA: 3.80*

Kingston, ON

*Expected 2028*

## EXPERIENCE

### Software Engineer Intern

Summer 2025

*Tracker Networks*

*Toronto, ON*

- Engineered full-stack features for Ventrack, a third-party risk management platform that enables users to create, assess, and track risks and mitigations.
- Built a tool to auto-generate company risk profiles by processing external data, streamlining a previously manual process and improving proactive risk identification.
- Implemented a real-time news feed API to display relevant articles for each risk, providing users with critical context for monitoring and decision-making.
- Structured and formatted data for the company's AI customer service agent, resulting in a 30% higher ticket resolution score.

### Lead Developer

Aug. 2025 – Present

*Queen's COMPSA*

*Kingston, ON*

- Lead a team of 8 developers in building full-stack applications for a student body of 1,800+, managing project requirements, timelines, and code reviews.
- Architected and engineered a room booking system using Next.js, React, and Supabase, integrating AWS SES for notifications and deploying to production.
- Mentored team developers through technical challenges and PR reviews, fostering a collaborative and efficient team environment.

### Project Engineer (Software Development)

Sept 2024 – Present

*Queen's Themed Entertainment Development Team*

*Kingston, ON*

- Engineered the Python-based ride control simulator for our team's submission to a themed entertainment design competition, modeling roller coaster movement, emergency stops, and maintenance protocols.
- Finished 1st overall in the TMU Thrill Design open round, outperforming 32 competing North American schools to secure a top seed in the Universal Creative invitational round.
- Developed show control programming for in-house projects, translating engineering requirements into functional software to validate design concepts.

## PROJECTS

### NFL QB Fantasy Point Predictor | *Python, Scikit-learn, Pandas, XgBoost, Flask*

July 2025 – August 2025

- Developed an XGBoost machine learning model in Python to predict NFL quarterback fantasy points in 2025, utilizing historical performance and defensive statistics.
- Achieved a Mean Absolute Error (MAE) of 3.99 when testing the model's predictions against the entire 2024 NFL season, demonstrating high predictive accuracy.
- Built an interactive JavaScript frontend to visualize predictions and provide a user-friendly interface for fantasy football analysis.

### QWEB Calendar Booking App | *React, Javascript, Firebase, Tailwind, Node.js*

January 2025 – April 2025

- Collaborated on a 4-person team to build a full-stack scheduling app for Queen's Web Development Club using React, Firebase, and Tailwind CSS.
- Delivered a functional product that hybridized Calendly & LettuceMeet, streamlining the club's event planning process by a tight sprint deadline.

## TECHNICAL SKILLS

**Languages:** Python, C, JavaScript, TypeScript, HTML/CSS

**Frameworks:** React, Node.js, Next.js, Tailwind CSS, Express.js, Flask

**Developer Tools:** Git, Linux, VS Code, AWS, Supabase, Convex, Firebase, Clerk

**Libraries:** Pandas, NumPy, Scikit-learn, Radix, PyQt5