

# Jesse Hines

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## TECHNICAL SKILLS

**Languages:** Python, C++, TypeScript/Javascript, C, Java, HTML/CSS, C#, SQL (Postgres), Bash, Scheme, LaTeX  
**Tools/Frameworks:** React, Node, Tensorflow, Pytorch, Django, Pandas, Flask, Docker, Git/Github, Linux, GraphQL/REST, CI/CD

## EXPERIENCE

### Project Team Lead (SEO)

Mar. 2025 – Apr. 2025

*U+ Education*

*Markham, ON (Remote)*

- Led the U+ WeAccelerate team in implementing SEO strategies to improve U+ Education's search engine visibility and user engagement
- Collaborated with web development teams to optimize **HTML** and **CSS**, improving website structure and enhancing on-page SEO
- Provided **leadership** and mentorship to team members, overseeing project milestones and fostering a collaborative environment

### Junior Data Analyst

Apr. 2024 – Aug. 2024

*Michelin*

*Waterville, NS*

- Wrote **Python** and **SQL** scripts to automate weekly KPI report generation, cutting manual prep time by 3 hours/week
- Built an interactive dashboard in **Plotly Dash** (via a **Flask** backend) for real-time filtering of production and downtime trends
- Analyzed production and supply chain data using **SQL** and **Excel** to identify trends and inform decision-making
- Developed and maintained dashboards and reports to track key performance indicators (KPIs) and support operational improvements
- Created performance reports that led to a **17%** reduction in machine downtime by identifying patterns in maintenance schedules

## PROJECTS

### WatPlan 🐙 | *TypeScript, React, Next.js, Node.js, PostgreSQL, Tailwind CSS*

Feb. 2025

- Developed a comprehensive academic planning application that helps University of Waterloo students visualize their degree progression, plan course sequences, and track program requirements
- Designed a flexible academic planning system with customizable term sequencing, prerequisite visualization, and progress tracking
- Engineered an intelligent PDF transcript analyzer with client-side parsing that achieves **95%** course recognition accuracy without server uploads
- Implemented course data integration using **GraphQL** for efficient querying and multi-provider authentication with **NextAuth.js**

### Physicle 🐙 | *JavaScript, HTML/CSS, KaTeX*

Mar. 2024

- Created a Wordle-inspired game that teaches physics concepts through equation-based puzzles, attracting **400+** users since launch
- Engineered a deterministic puzzle generation algorithm using prime number-based hashing to create unique daily puzzles with consistent results across devices
- Implemented features including local state persistence, mobile responsiveness, and unlimited play mode for enhanced user experience

## EDUCATION

### University of Waterloo

Sept. 2023 – Apr. 2028 (expected)

*Bachelor of Mathematics, Honours Mathematics*

**GPA: 3.9/4.0**

- Relevant Coursework: Object-Oriented Programming, Software Development Tools, Functional Programming, Linear Algebra, Calculus, Probability