

# Josh Rosenfeld

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## SKILLS

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**Programming:** JavaScript, TypeScript, Python, Java, Matlab

**Web & Database:** HTML, CSS, MongoDB, MySQL

**Frameworks & Libraries:** React.js, Node.js, Express.js, Next.js, Redux.js, Tailwind CSS, Bootstrap, Pygame

**Tools:** Git, VSCode, PyCharm, Jupyter Notebooks, Adobe CS, MS Office, LaTeX, Vite

## EDUCATION

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### Queen's University

Kingston, Ontario

Bachelor of Computing (Honours) | Specialization in Biomedical Computing

Expected Graduation, May 2026

- **GPA:** 4.23/4.30
- **Relevant Coursework:** Data Structures & Algorithms, Java OOP, Intro to Programming, Software Specifications, Linear Data Analysis, Computer Architecture

## PROJECTS

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### Prompt Central

[Preview - GitHub](#)

- Developed a full-stack web application utilizing **TypeScript, React.js, & Next.js** that allows users to easily discover, create, and share prompts to ask AI models
- Designed a **RESTful backend server** enabling prompt and user data to be stored persistently in a **MongoDB** database
- Integrated **NextAuth.js** for user authentication using the Google provider
- Utilized: **Typescript, React.js, Next.js, NextAuth.js, Tailwind CSS, MongoDB, Mongoose, Axios**

### Sudoku Solver

[GitHub](#)

- Created an interactive game of Sudoku that the user can choose to play or let the application solve itself using a **backtracking algorithm**
- Integrated a user-friendly interface using **Pygame**, allowing users to easily visualize the game and the algorithm
- Utilized **object-oriented programming principles** to design modular and scalable code, enhancing maintainability
- Utilized: **Python, Pygame**

### Blog Posts!

[Preview - GitHub](#)

- Developed a full-stack **CRUD** application using **React.js & Express.js** that allows users to create their own blog posts
- Built a scalable backend, implementing **RESTful API endpoints** to handle CRUD operations for effective communication with a **MongoDB** database
- Integrated **Redux.js** for state management, enhancing the scalability and maintainability of the application
- Utilized: **Typescript, React.js, Express.js, Redux.js, Tailwind CSS, MongoDB, Mongoose, Axios, Vite**

### Personal Portfolio

[Preview - GitHub](#)

- Designed and developed a personal portfolio website utilizing **Typescript, React.js, & Next.js**
- Implemented a responsive and mobile-friendly design, providing a consistent user experience across various devices
- Utilized: **Typescript, React.js, Next.js, Tailwind CSS, Framer Motion, Resend, Material Icons**

## ACTIVITIES AND LEADERSHIP

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### True North Sports Camp

Toronto, Ontario

Coach/Counsellor

July 2019 – Aug 2022

- Engaged youth campers with the fundamentals of flag football

### Leadership

- Recipient of Northern Secondary School's Henders Cup – awarded to the two graduating students who best exemplified both academic excellence and extra-curricular involvement Jun 2022
- Three-time Varsity Football Captain Sept 2019 – Nov 2022