

# Tanishq Maheshwari

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## Skills

**Languages** (JavaScript, Typescript, HTML/CSS, C++, C, Python, SQL, R, Java)

**Technologies** (MongoDB, Express, React, Node, React, Gatsby, GraphQL, Jest, Jenkins, Numpy, Pandas, BeautifulSoup, Selenium, Unix)

**Tools** (Excel, Adobe Suite, AWS, Figma, Git, Google Cloud, Jira + Confluence, Netlify, Postman, Zapier)

## Experience

### Faire, Software Developer

Jan 2022 – Apr 2022

- Collaborated with engineering, product, design, and data teams to **write multiple engineering and design scoping docs** for internal tools that improve engineering output.
- Led UI improvements of internal A/B testing tool using **React, Typescript**, and **MobX** which reduced manual configuration of A/B tests from 25% to 3%. Tracked usage using **Amazon Kinesis** and **SQL queries** with Mode.
- Reengineered hard-coded USD currency values to **protocol buffers** that support multiple currencies, enabling international brands to use their local currency.
- Implemented Github Action into CI/CD processes to **report test coverage** for incoming pull requests.


### Mappedin, Software Developer

May 2021 – Aug 2021

- Developed **15 new pages** using **React with Styled Components, Typescript**, and **Gatsby** for company website with **160k visitors** and **500k total page views**.
- Responsible for creating release timelines for content and **SEO** changes to the website in collaboration with marketing and design teams, resulting in a **200% increase to specific page visits**.
- Led development of new design system in accordance with **Atomic Design Theory** using **Typescript** and **React** to create reusable components.
- Queried data using **GraphQL** to display images, automated job postings from the JazzHR API, and more.

### Front Row Ventures, Business Development Associate

Apr 2021 – May 2022

- Created webscraper using **Python, BeautifulSoup**, and **Selenium** to efficiently source investment dealflow.
- Saved tens of hours of manual labour by automating and accelerating various company processes using **Zapier**.
- Responsible for creation and launch of online venture capital courses  by conducting **user interviews, aligning key stakeholders** such as prominent venture capitalists across Canada, and creating product roadmaps.
- Generated **\$7,000+ in revenue and 200+ enrollments** for the course by partnering with student organizations and implementing promotional strategies.
- Formed pitch decks to acquire **\$120k+** from corporate partnerships and the government.

## Projects

### 3D Graphics Engine

- Created a program that renders blender (.obj) files into 3D graphics featuring shading, illumination, and a first-person movable camera system using **C++**.
- Gained an understanding of the theory and mathematics behind **graphics APIs** by applying concepts such as **projection, clipping, and texturing**.

### WLP4 Compiler

- Created a compiler to translate a subset of the C programming language (WLP4) into **MIPS assembly language** using **C++**.
- Implemented scanning, bottom-up parsing, context-sensitive analysis, and code generation using several algorithms and data structures.

### Block Game (Tetris)

- Developed Tetris using **React** and **Typescript**, grid and collision detection systems use React's **State Hook**.
- Created a randomizer system for pieces with **memoization** for an optimized experience with faster performance.
- Packaged the application as a **node module** and published to npm, allows for the game to be implemented in other applications seamlessly.

## Education

### University of Waterloo

Sep 2020 – Apr 2025

Bachelor of Computer Science (BCS) with business specialization.

Relevant courses: Object-Oriented Software Development, Data Structures and Data Management, Algorithms