# Tanishq Maheshwari

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⚑ American and Canadian Dual Citizenship

## 🧠 Skills

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

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

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

## 💼 Experience

### Faire, *Software Developer* 🔗
Jan 2022 – Apr 2022

- 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.
- Built a rotating call-to-action banner system for Faire's homepage with logic accounting for **50+ user states**, leading to a **10% increase in first-order conversions**.
- **Produced multiple engineering and design scoping docs** for internal tools that improve engineering output in collaboration with engineering, product, design, and data teams.
- Wrote **backend Kotlin** code to define settings required for A/B tests and to create API endpoints.
- 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 🔗

- Developed 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.

## 🎓 Education

### University of Waterloo
Sep 2020 – Apr 2025

Third year Bachelor of Computer Science (BCS) candidate with obtained business specialization.
Relevant courses: Object-Oriented Software Development, Data Structures and Data Management, Algorithms