

Ojas Singh

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Education

University of Toronto

Expected graduation: Dec 2024

Honours Bachelor of Science (HSc) - Computer Science, Mathematics, and Statistics

Awards: Admission scholarship worth \$1,500.00 CAD

Certifications: React the Complete Guide (Udemy), The Complete Web Development Bootcamp (Udemy), Scalable Machine Learning on Big Data with Apache Spark (IBM), Machine Learning for Python (IBM)

Technical Skills

Languages: Python, Typescript, Javascript, Go, HTML, CSS, Bash, SQL

Technologies: React, Next.js, Node.js, MongoDB, PostgreSQL, Docker, AWS, Git, Jira

Concepts: APIs (REST, GraphQL), Agile, DBMS, CI/CD, OOP, Test-driven development, Software Lifecycle

Experience

Flow Robotics | Front-End Developer

Apr 2024 - Present

- Developed a landing page for a medical device with **Typescript** utilizing **Next.js**, **shadcn/ui**, and **TailwindCSS**.
- Integrated Vercel Analytics, and utilized **React Testing Library** to achieve **100%** test coverage.

Jobiry | Software Developer Intern

Aug 2023 - Nov 2023

- Engineered a **Retrieval Augmented Generation (RAG)** component pipeline with **Python** and Typescript, utilizing **Langchain** and Next.js to process user documents for **600+** monthly active users.
- Implemented a vector-search query using **Supabase** and **SQL**, and used **React** to draft a clean User Interface.

University of Toronto Scarborough | Web Developer

May 2022 - Apr 2023

- Developed a web application using **JavaScript** and Next.js for **2000+** University of Toronto students.
- Integrated **Stripe** payment checkout, and a custom **CMS** with **Firebase** for fast event management.
- Achieved **<300 ms** first paint load time, and optimized asset storage to reduce bandwidth use by **300%**.
- Led cross-functional collaboration with 2 other team departments, ensuring effective communication.

Omdena | Machine Learning Engineer Intern

Jul 2020 - Nov 2020

- Processed **10,000+** data points with **Python** via **scikit-learn** and **pandas** for optimal visualization and cleaning.
- Employed PCA for a **70%** reduction in dimensions, keeping **95%** of variance for improved model efficiency.
- Led two sprints with 5 engineers, serving as scrum master and utilizing Jira for agile project management.

Projects

SWEResume.com | Typescript, Python, Next.js, Langchain, Pinecone, Clerk, AWS

(Website ↗)

- Built and deployed an AI resume-crafting SaaS for software engineering positions.

AI Finance Dashboard | Typescript, React, Express.js, Prisma, MySQL, Docker

(GitHub ↗)

- Engineered an AI dashboard via Next.js and OpenAI, aggregating real-time data of **5000+** stock indices.
- Employed **Prisma** and MySQL to manage data for **200+** mock users, and React for visualization.

Broadcast - A Social Media App | Go, Gin, Typescript, React, MongoDB, Websockets

(GitHub ↗)

- Architected a real-time chatting application in **Go** and Typescript, utilizing Next.js, **websockets**, and **Gin**.
- Performed thorough end-to-end tests in Typescript by leveraging **Cypress** to attain **90%+** test coverage.

Sentiment Analysis Blog | Typescript, Tensorflow, React, GraphQL, AWS

(GitHub ↗)

- Built an application in Typescript using **Tensorflow.js**, Next.js, and **AWS Amplify** and **S3** for sentiment analysis.
- Utilized Tensorflow.js's text toxicity model to improve content safety, offering toxic and obscenity probabilities.