

Josh Shergill

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EDUCATION

University of Toronto - St. George

Toronto, ON

Bachelor of Science in Computer Science, Minor in Statistics

2022 - 2026

- **Relevant Coursework:** Software Engineering & Design, Web Dev, Systems, Data Structures & Algorithms, Linear Algebra, Databases, UI/UX Design, Data Analysis & Statistics, AI, Machine Learning

SKILLS

Languages: Java, Python, C, JavaScript, Swift, TypeScript, SQL, R, Assembly, HTML5/CSS3

Frameworks: React, Next.js, Node.js, Flask, Tailwind, Pytorch, JUNIT

Developer Tools: Git, Powershell, AWS, Databricks, Google Cloud Platform, XCode, Prisma, Docker, Figma, Supabase

Libraries: pandas, NumPy, Seaborn, Altair, Matplotlib, YOLOv5, jest, pytest

PROJECTS

<https://saycamel.com> | *Next.js, React, Typescript, Python, PostgreSQL, Supabase*

Jan. 2025 – Present

- Developed a full-stack campus event discovery platform with secure JWT authentication, account personalization, and calendar integration that can currently serve 10,000+ university students
- Engineered a machine learning recommendation engine with TF-IDF vectorization and category-aware similarity scoring, featuring real-time preference learning from user interactions, achieving average accuracy of 92%
- Automated a data pipeline using Selenium, Apify and Gemini API for scraping and enriching 200+ events daily

EXPERIENCE

Software Developer

May 2025 – Present

Department of Computer Science @ UofT, SDS Team

Toronto, ON

- Developing and enhancing a TypeScript-based memory visualization library used by CS educators, with a focus on improving tooling and UX for novice Python learners.
- Executing a high quality CI/CD workflow with automated testing and extensive code coverage analysis.

Software Engineer Research Intern

Sept. 2024 – Dec. 2024

Ontario Institute for Studies in Education @ UofT

Toronto, ON

- Increased user engagement by 50% through a redesigned interactive map interface using new React states.
- Optimized backend dashboard functionality to display student data 2x faster from Google Firebase, enhancing accessibility for teachers viewing student data on <https://balanceai.ca>.

Software QA Dev

Dec. 2023 – May 2025

DataAnnotation

Seattle, WA

- Wrote high-quality tests and intensive code quality assurance reviews, thoroughly assessing data fed to the LLM.
- Led multiple micro-development projects advancing cutting-edge large language models and agentic AI such as Google's Jules, utilizing various languages/frameworks to innovate on their capabilities through innovative solutions.

Software Engineer Intern

Jun. 2023 – Aug. 2023

Cloptim

Dallas, TX

- Designed AWS cloud optimization strategies reducing client costs by \$3,000+ through data-driven resource allocation
- Built Apache Spark analytics pipelines processing 1TB+ client data daily, enabling real-time business insights via React dashboards

AWARDS

Amazon Web Services x UofT IEEE Hackathon, 1st Place | *Eventuary*

Dec. 2024

- Recieved first place prize for best designed full-stack React web app employed with AWS architecture like Lambda, DynamoDB, Bedrock, Kendra, and Cognito in the events category.