

# 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 Science & Analysis, AI, Machine Learning
- **Clubs:** Google Developer Student Club - *Director of Operations*

## PROJECTS

### Camel ([saycamel.com](https://saycamel.com)) | *Next.js, React.js, Python, Gemini, Vercel, Supabase*

Jan. 2025 – Present

- Founded and scaled a full-stack campus event discovery platform designed to handle 30k+ monthly API calls, continuous scraping jobs, and real-time recommendation inference
- Developed a machine learning engine leveraging TF-IDF vectorization and category-aware similarity scoring, achieving 92% accuracy through real-time user preference learning and behavioral analysis
- Automated data pipeline using Selenium and Gemini API for processing 400+ events weekly from 1k+ sources
- Managed a team of 10 to assist in accelerating platform growth to over 800 accounts & 4.1k monthly visitors

## EXPERIENCE

### Software Engineer Intern

Dec. 2025 – Present

*Boost Collective*

Toronto, ON

- Maintaining a large-scale PNPM monorepo powering tools used by 50k+ musical artists, resolving cross-package build issues and improving site speed
- Built artist-facing analytics tools with a robust backend, processing 1M+ streaming data points for royalty modeling, growth projections, and statistical anomaly detection
- Integrated a headless CMS tool enabling non-technical teams to manage static content and publish SEO-optimized blog posts, streamlining user acquisition funnels

### Software Developer

May 2025 – Dec 2025

*Department of Computer Science @ UofT*

Toronto, ON

- Led core module migration (CJS → ESM) across 3 JS packages, updating Jest suites and Webpack/Babel configs.
- Modernized CLI and tooling by converting to TypeScript, migrating 15+ functions to promise-based `execa`, and validating JSON schema inputs. Resolved 2 critical rendering bugs.
- Built an interactive memory visualization system mapping Python variables to memory objects with SVG, improving debugging for 5,000+ CS students annually.

### Software Engineer Researcher

Sept. 2024 – Dec. 2024

*Ontario Institute for Studies in Education @ UofT*

Toronto, ON

- Designed an interactive navigation interface by architecting React components, managing state and data flow, and integrating backend services following MVC principles, boosting user engagement by 50%.
- Redesigned backend dashboard architecture, reducing data retrieval time from Firebase by 75% on [balanceai.ca](https://balanceai.ca).

## SKILLS

**Languages:** Java, Python, C/C++, TypeScript/JavaScript, Ruby, Swift, R, GoLang, SQL, Assembly, HTML5/CSS3

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

**Developer Tools:** Git, Powershell, Claude Code/MCPs, AWS, Databricks, GCP, Prisma, Docker, Supabase

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

## AWARDS

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

Dec. 2024

- Received 1st place prize using AWS architecture like Lambda, DynamoDB, Bedrock, Kendra, and Cognito.

### UofT Centre for Entrepreneurship Venture Spotlight |

Feb. 2026

- Selected as a featured AI/ML student venture by U of T's Centre for Entrepreneurship's newsletter.