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

SKILLS

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

PROJECTS

Event Platform (saycamel.com) | *Next.js, React.js, Python, PostgreSQL, Supabase*   Jan. 2025 – Present
- Founded and developed a scalable full-stack campus event discovery platform with CI/CD, JWT authentication, serving 2,500+ monthly users with robust REST APIs and real-time data synchronization
- Engineered a machine learning recommendation 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, Apify and Gemini API for scraping and enriching 400+ events weekly
- Managed a team of 8 members to assist in accelerating platform growth to over 500 account sign-ups

EXPERIENCE

Software Engineer Intern   May 2025 – Present
Department of Computer Science @ UofT   *Toronto, ON*
- Built an interactive memory visualization system between Python variables and memory objects using an SVG object-ID mapping algorithm, significantly improving the debugging experience for 5,000+ CS students annually.
- Refactored 50+ TypeScript files to be type-safe, increasing code safety by 40% and resolving 3 critical rendering bugs that were crashing the demo site.

Software Engineer Research Intern   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%.
- Reduced data retrieval time from Google Firebase by 75%, enhancing backend dashboard functionality for teachers viewing student data on https://balanceai.ca.

Software QA Dev   Dec. 2023 – May 2025
DataAnnotation / Alignerr   *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 RLHF.

Software Engineer Intern   Jun. 2023 – Aug. 2023
Cloptim   *Dallas, TX*
- Assisted in designing AWS cloud optimization strategies, reducing client costs by $3,000+ through data resource allocation with Databricks
- Built a reporting feature on Apache Spark pipelines processing hundreds of GBs of client data daily, updating client-facing dashboards with near real-time analytics.

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.