Josh Shergill

joshshergill.com | josh.shergill@mail.utoronto.ca | linkedin.com/in/joshshergill | github.com/jvenchy

Education

University of Toronto Toronto, ON

Bachelor of Science in Computer Science, Minor in Statistics *2022 - Present*

- **Relevant Coursework:** Software Design and Engineering, Web Development, Computer Systems, Data Structures and Algorithms, Databases, Computation Theory, UI/UX Design, Statistics, Artificial Intelligence
- **Clubs:** CS Student Union, Web Development Club, Running Club, Basketball

Experience

U of T's Department of Leadership and Education Sept. 2024 – Present

Software Engineer *Toronto, ON*

- Worked with Dr. Jang's research lab at UofT to gamify their AI literacy assessment platform for K-12 students, balanceai.ca
- Increased user engagement by 50% through a new interactive map interface using React states, replacing the original navigation.
- Optimized backend dashboard functionality to display student data 2x faster from Google Firebase, enhancing accessibility for teachers viewing student data.

DataAnnotation Dec. 2023 – Present

Software Developer for LLMs *Remote*

- Led multiple micro-development projects that advanced artificial intelligence models by utilizing languages/frameworks such as Python, Java, Swift, and React, enhancing my ability to rapidly acquire new technologies and apply innovative solutions.
- Wrote hundreds of high-quality tests and performed intensive code reviews, thoroughly assessing data points fed to the LLM.

Cloptim Jun. 2023 – Aug. 2023

Software Engineer Intern *Dallas, TX*

- Reduced customer business costs by $3,000 through AWS cloud resource utilization optimization.
- Designed an Apache Spark-based data pipeline from S3, with Databricks warehousing and Spark analytics.
- Created dynamic data visualization for clients using React.js and HTML/CSS.

Projects

Social Code Execution Platform | *Next.js, React, Tailwind, Docker, SQLite, Prisma* Oct. 2024 – Dec. 2024

- Implemented real-time code execution across various languages, saving and viewing code snippets, creating blog posts with code templates, account creation, and commenting and voting on posts, all using a Monorepo strategy.
- Implemented user and administrative credential and token authentication, server-side error handling, and efficient data handling and storage.
- Implemented responsive and reactive front-end experience, light mode/dark mode option for user

Ingredient and Diet-based Recipe Finder | *Swift, Spoonacular API, Alamofire* May 2024 – July 2024

- Leveraged Alamofire and the Spoonacular API for recipe recommendation data, efficient networking, and API integration in a MacOS application.
- Implemented local file storage with JSON for saving the user's favorite recipes.

Awards

Amazon Web Services x UofT Hackathon, 1st Place | *Eventuary* Dec. 2024

- Created a React web app that lets students register for school events that match their interests by using personalized recommendations, scraping data from several different event websites, employed with AWS architecture like Lambda, DynamoDB, Bedrock, Kendra, and Cognito.

Technical Skills

Languages: Java, Python, Swift, TypeScript, C/C++, SQL (Postgres), JavaScript, R, Assembly
Frameworks: React, Next.js, Svelte, Node.js, Flask, Vapor, Tailwind
Developer Tools: Git, Powershell, AWS, Databricks, Google Cloud Platform, XCode, Visual Studio, Prisma, Docker
Libraries: pandas, NumPy, Seaborn, Altair, Matplotlib, YOLOv5