

Shirvil Sheth

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EDUCATION

University of Michigan | Ross School of Business

Ann Arbor, Michigan

B.S. in Computer Science

Expected Graduation, May 2025

- o **Concentrations:** Computer Science and Business Administration & Management
- o **GPA:** 3.56/4.00
- o **Related Coursework:** Data Structures & Algorithms, Distributed Systems, Machine Learning, Artificial Intelligence, Software Engineering, Computer Architecture & Programming, Object-Oriented Programming, Theory of Computation, Human-Centered Software Design, Statistics & Applications, Combinatorics

SKILLS

Programming: C++, C, C#, Python, JavaScript, HTML/CSS, SQL, Node.js, React, TensorFlow

Tools: AWS, Git, VS Code, Visual Studio, React Native, WinForms, MySql, Jupyter Notebooks, PowerShell, Power BI, Agile

EXPERIENCE

Intel Corporation

Hillsboro, Oregon

Software Engineering Intern

May 2024 – Aug 2024

- Implemented a logistic regression classification algorithm using TensorFlow to predict whether a workload is XPU (NPU, CPU, or GPU) or DRAM bound, leveraging telemetry data and a roofline model to gain insights into resource utilization and constraints, achieving a 94% prediction accuracy
- Developed a trigger-based feedback framework to collect data on PC user experience, utilizing Hugging Face sentiment analysis to gauge user satisfaction with Intel drivers, resulting in valuable insights for UX improvements
- Optimized five popular game titles within Intel's Application Optimizer by leveraging telemetry data to identify optimal settings for various Intel chips, graphics, and drivers, leading to significant frame rate improvements
- Streamlined the installation process for an in-house telemetry data collection tool across 200+ Intel systems by automating the complex setup with PowerShell, significantly enhancing the efficiency of telemetry data collection

Rocket Mortgage

Detroit, Michigan

Software Engineering Intern

May 2023 – Aug 2023

- Revamped company-wide data accessibility by creating a JavaScript, HTML, and CSS search web page integrated with AWS OpenSearch. Widely adopted by 10+ cross-functional teams, boosting user experience, streamlining reporting, and replacing traditional SQL queries
- Enhanced data processing and workflow efficiency by architecting 5+ AWS Lambda functions to automate routine data ingestion tasks from Workday, resulting in improved operational workflows
- Utilized various AWS resources such as Glue, S3, Lambda, Redshift, and PowerBI to develop a dashboard displaying employee metrics, promoting informed decision-making, and bolstering organizational performance strategies

Norma Group

Auburn Hills, Michigan

Software Engineering Intern

May 2022 – Aug 2022

- Developed software for an RFID chip scanning apparatus in TypeScript and Node.js to test the integrity of fluid line connections for automobile assembly lines, increasing assembly efficiency by 20%
- Consolidated with in-house SQL server and PowerBI to generate enterprise-wide project business reports for Q2 product life cycles and Q3 sales projections
- Designed 20+ unit tests to measure software reliability and time complexities for real-world assembly applications

The Michigan Daily

Ann Arbor, Michigan

Web Developer

Jan 2023 – Present

- Contributed to The Michigan Daily's online engagement by implementing interactive crossword and mini crossword puzzles for TMD website using Next.js, TypeScript, and Tailwind CSS; played by 5000+ individuals weekly
- Maintained and optimized various web elements across TMD, enhancing UI/UX and boosting our online presence while reaching over 250,000 unique readers monthly

PROJECTS

BeTuned

- Developed a cross-platform mobile application using React Native, implementing core functionalities inspired by the popular BeReal app, including real-time user engagement and spontaneous content sharing, with a unique twist where users share their recently played music instead of pictures; integrated with Spotify's API

E-commerce

- Designed a full-stack e-commerce platform utilizing Next.js, Tailwind CSS, MongoDB, and Stripe; implemented an admin panel for product management and a user interface enabling product search and purchase functionalities