

# Shirvil Sheth

US Citizen | shirvil@umich.edu | (248)-853-7196 | LinkedIn: [shirvilsheth](#) | GitHub: [ssheth75](#) | Website: [shirvilsheth.com](#)

## EDUCATION

### University of Michigan

B.S. in Computer Science, Minor in Business

GPA: 3.56/4.00

Ann Arbor, Michigan

Expected Graduation, May 2025

**Related Coursework:** Data Structures & Algorithms, Web Systems, Machine Learning, Artificial Intelligence, AI & ML in Investment Strategies, Human-Centered Software Design, Accounting, Finance

## SKILLS

**Languages:** C++, C, C#, Python, JavaScript, React, HTML/CSS, Tailwind, SQL

**Python Libraries:** TensorFlow, Scikit-learn, NumPy, Matplotlib, pandas, Django, Nltk

**Tool & Frameworks:** AWS, React Native, Jupyter Notebooks, PowerShell, Power BI, MongoDB

## EXPERIENCE

### Intel Corporation

Software Engineering Intern (Crowdsourced Platform Validation)

Hillsboro, Oregon

May 2024 – Aug 2024

- Developed multi-threaded framework in C# and monitoring dashboard using PowerBI to automate user satisfaction data collection on Intel drivers, solving the challenge of scaling manual lab testing via pop-up forms triggered by specific software and hardware events, resulting in 50+ hours saved per week for the internal PC validation team
- Optimized five popular video game titles (e.g. GTA, Tombraider, Assassin's Creed) using Intel's Application Optimizer in Python by leveraging telemetry data to identify optimal game settings for various Intel chips, graphics, and drivers, leading to significant 15% frame rate improvement on average across all games
- Streamlined installation process for in-house telemetry data collection tool across 50+ Intel systems by automating complex setup with PowerShell and Python, increasing tool usage and thus overall volume of telemetry data collection

### Rocket Mortgage

Software Engineering Intern (Workforce Analytics Department)

Detroit, Michigan

May 2023 – Aug 2023

- Revamped company-wide employee data accessibility by creating search web page using React and AWS OpenSearch that allowed quick keyword searches that replaced manual SQL queries, freeing up 7+ hours per week for 5+ teams
- Enhanced data processing and workflow efficiency by architecting 5 AWS Lambda functions to automate routine data ingestion tasks from Workday, minimizing manual intervention and reducing team AWS costs by \$1,000 YoY
- Utilized various AWS resources like Glue, S3, Lambda, Redshift to develop custom PowerBI dashboards displaying employee data and metrics, allowing leadership to derive new insights about employee performance and efficiency

### Norma Group

Software Engineering Intern (Software R&D)

Auburn Hills, Michigan

May 2022 – Aug 2022

- Developed automated RFID scanning system with JavaScript and Siemens satellite technology to wirelessly check integrity of fluid line connections for automobile assembly lines in real-time, which previously relied on manual inspections, resulting in more consistent and reliable quality control and reduced fluid line validation time by 60%
- Designed and implemented 20+ unit tests and created real-time monitoring dashboard for RFID scanning system to ensure accurate detection of fluid line connections and validate communication with Siemens satellite

### The Michigan Daily

Web Developer ([games.michigandaily.com](#))

Ann Arbor, Michigan

Jan 2023 – Present

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

## PROJECTS

### BeTuned

- Developed mobile application using React Native and Spotify's Web API where users are prompted randomly throughout the day to share their recently played music, creating serendipitous moments of connection amongst friends

### Custom E-commerce Platform

- Developed full-stack e-commerce platform using Next.js, Tailwind CSS, MongoDB, and Stripe, which features an admin panel for product management and customer-facing website with search and purchase functionalities