

# SAMAKSH ARORA

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## EDUCATION

Wayne State University – College of Engineering

Detroit, MI

Bachelor of Science in Computer Science

Expected graduation: May 2028

Major: Computer Science | Minor: Mathematics

Cumulative GPA: 3.95

Relevant Coursework: Programming and Problem Solving (Python, C++, Java), Calculus I/II/III, Data structures and algorithms

## PROFESSIONAL EXPERIENCE

Wayne State University

Detroit, MI

Student Research Intern

Apr 2025 – Aug 2025

- Developed Prizeversity, a full-stack web app in a team environment using **React**, **Node.js** and **Tailwind CSS** to gamify extra-credit opportunities at WSU, boosting student engagement by **25%** through interactive challenges and an intuitive user experience
- Integrated **Google OAuth 2.0** and Google Cloud's **Workload Identity Federation** for secure login and role-based access control, enabling institutional domain restrictions and implementing automated email notifications to keep users informed of reward updates
- Leveraged **MongoDB** to manage class feedback and track rewards, aiding a scalable backend and reducing query latency by **40%**

POS Notebook

Toronto, ON

Software Engineering Intern

Jan 2025 – Apr 2025

- Contributed to the development of core features of a **Java**-based POS application used by over **300** retailers, improving transaction speed by **25%** through performance tuning, UI enhancements, and backend logic optimizations that streamlined daily operations
- Reduced checkout errors by **40%**, lowering failed transactions from **50+ per week to under 30**, by implementing exception handling, real-time input validation, and transaction verification logic, leading to a **15%** increase in successful payment rate
- Collaborated on deployments using **Git** version control workflows, branch-based development, and code reviews to support efficient releases, maintain code quality, and improve overall team coordination across multiple development tasks

## PROJECTS

WCG x ESSPI Project

Detroit, MI

Team Lead for Warrior Consulting Group

Aug 2025 – Present

- Lead a team of **5** analysts evaluating ESSPI's battery safety technologies, comparing performance and standards against competitors
- Advise ESSPI on strategic improvements and best practices, translating technical analysis into actionable recommendations
- Coordinate team workflows, delegate tasks, and oversee research quality, delivering **10+** consulting reports with practical insights

Drink Up!

Windsor, ON

Winhacks 2025 Project

Feb 2025 – Feb 2025

- Programmed a water logging game using **React** for the front end and **Flask** for the backend, allowing users to track water intake
- Created a reward system featuring **27** unique, self-designed badges combined with real-time feedback, enhancing user engagement
- Utilized **SQLite** to store and manage user data efficiently, ensuring seamless tracking of users, their progress, badges and points

## EXTRACURRICULAR EXPERIENCE

Alpha Kappa Psi - Professional Business Fraternity

Detroit, MI

Recruitment Chair

Apr 2025 – Present

- Managed and executed **7** recruitment events attended by **120+** participants, successfully attracting high-potential candidates
- Fostering a welcoming environment for prospective members, encouraging engagement among students of diverse background

AWS Cloud Club

Detroit, MI

Member

Jan 2025 – Present

- Participating in cloud projects using AWS services such as **EC2**, **S3**, and **Lambda** to deploy and manage scalable cloud solutions
- Engaging in discussions about current trends, future of cloud computing, along with exploring specific use cases and best practices

## SKILLS & ENGAGEMENTS

Technical: Python, C++, Java, HTML/CSS, React, Next.js, Node.js, Flask, Github, Microsoft Office Suite, VSCode, Xcode

Languages: Hindi (Native), Punjabi (Native), English (Fluent), Urdu (Fluent)

Interests: Badminton, Basketball, Fashion, Fitness, Food, Hackathons, Learning, Problem-Solving, Volunteering