

SAMAKSH ARORA

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EDUCATION

Wayne State University – College of Engineering

Detroit, MI

Bachelor of Science in Computer Science, Irvin D. Reid Honors College

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

Warrior Consulting Group

Detroit, MI

Technical Team Lead – Battery Safety Solutions

Aug 2025 – Present

- Lead 5 analysts evaluating IoT-enabled battery safety systems, boosting sensor data accuracy by **25%** through cloud-based analytics
- Assess containment and suppression tech, improving thermal event detection speed by **30%** via standardized performance metrics
- Benchmark ESSPI's cloud training and compliance tools, enhancing regulatory coverage by **20%** and reducing response latency

Wayne State University

Detroit, MI

Full Stack Development Intern – Student Engagement Platform

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 – Sales and Inventory Management

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

Wayne Opportunities Network

Windsor, ON

Full Stack Application – Campus Networking Platform

Oct 2025 – Present

- Engineering a full-stack MERN app connecting **500+ students**, projected to enhance peer networking efficiency by minimum **60%**
- Implementing secure **JWT** authentication and **MongoDB Atlas** integration supporting **1000+** profiles with reliable access control
- Designing and optimizing **RESTful APIs** to reduce data retrieval time by approximately **45%**, enhancing the overall responsiveness

Drink Up!

Windsor, ON

Winhacks 2025 Winner – Water Tracking Application

Feb 2025 – Feb 2025

- Programmed a water logging game using **React** and **Flask** to enable **100+** users to track daily water intake and improve hydration
- Created a reward system featuring **27** unique, self-designed badges, enhancing user engagement and retention throughout gameplay
- Utilized **SQLite** database management, ensuring **99%** data accuracy in tracking user profiles, badges, and points across sessions

EXTRACURRICULAR EXPERIENCE

Alpha Kappa Psi - Professional Business Fraternity

Detroit, MI

Recruitment Chair – Beta Omicron Chapter

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

Audi Alteram Partem: Journal of Law, Science, and Society

Detroit, MI

Founding Tech Lead – Interdisciplinary Research Journal

Jan 2025 – Present

- Build and maintain the official website, ensuring accessibility, timely publication, and seamless user experience across platforms
- Work with editorial and design teams to update content and implement web enhancements aligning with the publication's standards

SKILLS & ENGAGEMENTS

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

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

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