

Raameen Ahmed

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EDUCATION

University of Michigan - Dearborn

Dearborn, MI

Bachelor of Science in Data Science, Concentration in Computational Intelligence

Expected May 2027

- **Relevant Coursework:** Data Structures and Algorithms, Applied Statistics, Massive Data Management, Discrete Math, Multivariable Calculus, Linear Algebra

TECHNICAL SKILLS

Programming & Development: Python, C/C++, R, SQL, HTML, CSS, JavaScript, Java

Frameworks & Libraries: Flask, RESTful APIs, Node.js, React, SymPy, NumPy, Pandas, Matplotlib, ggplot2, dplyr

Developer Tools: Jupyter Notebook, R Markdown, TablePlus, VS Code, Xcode, Visual Studio, SQL Tools, Git & GitHub, Google Analytics 4, Google Lighthouse, Excel

Systems, Databases & Cloud: Linux/Unix, MySQL, SQLite, Shell Scripting

EXPERIENCE

Undergraduate Researcher – Data Science

April 2025 – Present

University of Michigan - Dearborn | Research Advisor: Prof. Keshav

Dearborn, MI

- Presented 7 years of 911/census insights to Detroit PD, driving \$2M reallocation to preventive programs; engineered MySQL database and automated ETL pipeline processing 2M+ records, reducing data latency by 40%
- Designed analytical framework integrating 911/Census data to identify 29 high-risk zones (52% of emergencies) and optimize hospital placements through regression analysis, supporting urban planning for underserved communities
- Developed 5+ Python/R dashboards visualizing crime hotspots (including Detroit's highest-risk intersection with 4,117 calls and 1,069 shootings), enabling data-driven resource allocation strategies for municipal stakeholders

Information Technology Consultant

September 2024 – April 2025

University of Michigan

Dearborn, MI

- Resolved 200+ weekly support tickets via TeamDynamix, Izzy, and Lansweeper with 95% SLA adherence; coordinated with IT/security/academic teams to handle 300+ hardware requests, improving response time by 30%

Information Technology Intern

June 2023 – August 2024

Edustaff

Sterling Heights, MI

- Reimaged 8,000+ devices, maintained inventory for 25,000+ assets, resolved support tickets efficiently, and streamlined audits to minimize downtime and ensure operational readiness across campus tech systems
- Automated imaging and BIOS setup for 3,000+ iOS/Windows devices using KillDisk, shell scripts, and custom workflows, reducing setup time by 60% and standardizing configurations across campus labs

PROJECTS

KnowIt AI | [Demo](#) | [GitHub](#) | *Flask, SymPy, PyPDF2, Wolfram Alpha API, RESTful APIs, SQLite, React, HTML, CSS*

- Built a full-stack AI tutoring platform using React and Flask microservices, reducing code complexity by 50% through modular architecture and intelligent query routing across 5+ academic domains
- Engineered a RESTful API system integrating Gemini AI, Wolfram Alpha, and SymPy to handle over 500 real-time queries in 48 hours, including symbolic math solving, PDF-based question answering, and step-by-step tutoring
- Designed custom prompt engineering templates within the Gemini-powered system, facilitating nuanced and relevant academic assistance, leading to a 30% increase in user engagement

Hotspot Detector: 911 Call Volume Study | [GitHub](#) | *MySQL, R Markdown, tidy, dplyr, ggplot2, GeoPy*

- Streamlined cross-functional data pipeline processing 2+ million 911 call records into 8 specialized datasets through modular MySQL architecture, enabling team access to 106,126 analyzed calls for immediate visualization
- Identified critical spatial patterns revealing Detroit's highest-risk intersection (4,117 calls, 1,069 shootings) and 29 locations accounting for 52% emergency calls, enabling data-driven urban planning for hospital placements

LEADERSHIP

Vice President of External Relations

February 2025 – Present

Data Science Association

Dearborn, MI

- Enhance member engagement and career development by outreaching to 3+ companies, securing 2+ opportunities