

Raameen Ahmed

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EDUCATION

University Of Michigan - Dearborn

Dearborn, MI

Bachelor of Science in Data Science, Concentration in Computational Intelligence | **GPA: 3.4** | *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, Quarto, JavaScript, Java

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

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

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

EXPERIENCE

Undergraduate Researcher – Data Science

April 2025 – Present

University of Michigan | Research Advisor: Prof. Keshav

Dearborn, MI

- Developed centralized data management system and streamlined workflows, accelerated 3-person research team analysis by 40% to efficiently access, analyze, and visualize emergency response and demographic datasets
- Established project's analytical framework and research direction through proactive database design and documentation to enable hypothesis testing over 7 years of data using 5+ R/Python visualizations

Information Technology Consultant

September 2024 – April 2025

University of Michigan

Dearborn, MI

- Automated imaging and BIOS setup for 50+ iOS and Windows devices using KillDisk, shell scripts, and custom deployment workflows, cutting setup time by 60% and standardizing configurations across campus environments
- Managed and resolved 200+ weekly service tickets through TeamDynamix, Izzy, and Lansweeper, maintaining 95% SLA adherence and improving issue tracking through proactive KPI monitoring and system integration
- Coordinated with IT, security, and academic teams to process 300+ hardware orders, repairs, and system audits, accelerating resolution speed by 30% and ensuring full compliance with inventory and data security standards

Information Technology Intern

June 2023 – August 2024

Edustaff

Sterling Heights, MI

- Maintained and tracked inventory of 25,000+ laptops, iPads, and printers using centralized databases and detailed Excel dashboards, achieving 100% asset visibility, reducing losses 15%, and streamlining quarterly audit procedures
- Refurbished and deployed 5,000+ laptops/iPads by developing automated imaging scripts and BIOS configuration tools, cutting setup time by 60% and resolving over 500 technical issues with 90% first-call resolution rate

PROJECTS

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

- Built full-stack AI homework assistant using React/Flask microservices, achieving 50% code reduction through modular architecture and intelligent query routing with 90%+ query classification accuracy across 5+ domains
- Engineered RESTful API ecosystem integrating Gemini AI and Wolfram Alpha APIs, processing 100+ queries in 24 hours, including mathematical computations with real-time step-by-step tutoring and advanced PDF analysis

Hotspot Detector: 911 Call Volume Study | [GitHub](#) | *MySQL, Pandas, NumPy, Matplotlib, ggplot2, R Markdown*

- 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 54,946 emergency calls, enabling data-driven urban planning for hospital placements

BirthStat Insights: U.S. Birth Data Analysis | [GitHub](#) | *R, R Markdown & knitr, ggplot2, dplyr, tidyverse, R Studio*

- Led 3-person research team in comprehensive analysis of 36K+ U.S. birth records, coordinating data cleaning pipeline and exploratory data analysis to uncover regional education-fertility disparities across 50 states
- Spearheaded team's visualization strategy using ggplot2, creating 5+ plots while managing cross-functional deliverables, including hypothesis testing and final report compilation for public health policy recommendations