

# Raameen Ahmed

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## EDUCATION

### University Of Michigan - Dearborn

Dearborn, MI

*Bachelor of Science in Data Science, Concentration in Computational Intelligence GPA: 3.4/4.0 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++, Java, JavaScript, R, SQL, HTML, CSS, Quarto

**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

### Data Science Student Research Intern

April 2025 – Present

*University of Michigan*

*Dearborn, MI*

- Collaborated with research team to clean and organize Detroit 911 call records from 2018-2025, then independently sourced and integrated Census population data to build a comprehensive MySQL database for spatial analysis
- Designed the project's analytical framework and research direction, building a shared database and streamlined data workflows that enabled the team to easily access, analyze, and visualize integrated 911 call and Census data in R

### Information Technology Consultant

September 2024 – April 2025

*University of Michigan*

*Dearborn, MI*

- Automated imaging for 50+ iOS and Windows devices weekly using KillDisk and custom reimaging scripts; configured BIOS settings and standardized builds; reduced manual setup time by 60% campus-wide
- Managed and analyzed 200+ weekly service tickets in TeamDynamix; maintained asset inventories in Izzy and Lansweeper; tracked MCommunity user data; updated Excel sheets to monitor KPIs; sustained 95% SLA adherence
- Collaborated with IT, security, and academic teams to process 300+ hardware orders and repairs; integrated data from TeamDynamix, Excel, and Lansweeper; ensured information security and boosted resolution speed by 30%

### Information Technology Intern

June 2023 – August 2024

*Edustaff*

*Sterling Heights, MI*

- Managed inventory of 5,000+ devices (laptops, iPads, printers) via centralized database and Excel dashboards; tracked serials, asset tags, and barcodes to ensure 100% visibility, cut losses 15%, and streamline quarterly audits
- Refurbished 5,000+ laptops and iPads annually by developing automated imaging scripts, driver installation routines, and BIOS configuration tools; reduced manual setup time 60% and enforced security baselines
- Diagnosed and resolved hardware, software, and network issues on 500+ devices with a 90% first-call resolution rate; leveraged ticketing and remote management tools, collaborating with support teams to maximize uptime

## PROJECTS

**Homework AI** | [GitHub](#) | *Python, Flask, React, Node.js, Gemini API, RESTful APIs, JSON handling*

- Developed full-stack AI homework helper using React/Flask with 50% code reduction through modular architecture, integrating Gemini AI and Wolfram Alpha APIs for intelligent query classification and mathematical computation
- Implemented RESTful API with 7 specialized modules handling 4 query categories (Algebra, Math, History, General), achieving 90%+ accuracy in AI-powered classification and step-by-step tutoring explanations

**911 Calls Research** | [GitHub](#) | *MySQL, SQLite, TablePlus, Pandas, NumPy, Matplotlib, ggplot2, R Markdown, VS Code*

- Visualized 50+ high-density 911 call hotspots and demographic trends across 8 years and 1.7M+ residents, supporting data-driven urban planning for Wayne County by integrating Census and emergency response data
- Engineered a robust MySQL data pipeline to consolidate, clean, and export 2M+ Detroit 911 call records and Census demographic data, doubling analytics accessibility for Python and R by leveraging modular SQL scripts

**Birth Data Analysis Research** | [GitHub](#) | *R, R Markdown & knitr, ggplot2, dplyr, tidyverse, R Studio*

- Performed R data wrangling: imported 20-variable CSV, removed 5% NAs, converted types, and tidied tibble
- Created 10+ ggplot2 plots (bar, smooth scatter, violin, faceting, maps) using ggrepel for label clarity
- Filtered and aggregated 36K state-year records with dplyr, uncovering regional education-fertility trends via EDA