

IMRAN AHMED

(773) 983-5863 | ia237808@gmail.com | [linkedin.com/in/imran12234](https://www.linkedin.com/in/imran12234) | github.com/imran12234 | [imrans.live \(portfolio\)](https://imrans.live) | USA CITIZEN

EDUCATION

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| DePaul University | Expected Graduation June 2026 |
| Master of Science in Artificial Intelligence | Chicago, IL |
| Bachelor of Science in Computer Science, GPA: 3.7 , <i>Dean's List for 6 Quarters</i> | |
| Relevant Coursework: Algorithms, Database Systems, Data Structures, Discrete Mathematics, Computer Systems, Distributed Systems, Artificial Intelligence, Neural Networks, Linear Algebra, Software Testing, Machine Learning, Object-Oriented Programming | |
| • Member Computer Science Society | Sept 2021 - Present |
| • Member Security Daemons | Sept 2021 - Present |

RELEVANT PROJECTS

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| ChiGo – AI-Powered Trip Planning Web App Live Demo: chi-go-v2.onrender.com | March 2025 – Present |
| Python, Django, PostgreSQL, OpenAI API, Google Places API, Google Routes API, Docker | |
| <ul style="list-style-type: none">Built a full-stack Django web app that generates personalized multi-day Chicago itineraries using OpenAI GPT-4o-mini, based on user survey preferences for cuisine, activity level, budget, and neighborhoods.Designed an AI prompt pipeline enforcing structured JSON output with day-by-day activities, then enriched each item with real coordinates, photos, and addresses via Google Places API.Developed an interactive activity-swapping system allowing users to replace itinerary items with AI-generated alternatives, updating the database and session state in real-time.Integrated Google Routes API with Haversine fallback to calculate walk/drive transit times between consecutive itinerary stops.Containerized with Docker and deployed to Render with Gunicorn, managed PostgreSQL, and WhiteNoise for static file serving.Collaborated in a 6-person Agile team using GitHub pull requests and branching strategies across 3 sprint cycles. | |
| AI-Powered Bill Splitter | March 2025 – July 2025 |
| React, Spring Boot, PostgreSQL, JWT, BCrypt, H2 | |
| <ul style="list-style-type: none">Built a full-stack web app to simplify group expense tracking and fair bill splitting using React (frontend) and Spring Boot (backend).Enabled real-time payment tracking by building interactive UI components in React that update payment status with checkboxes.Reduced backend complexity by designing RESTful Spring Boot APIs to handle expense creation, retrieval, and state changes.Increased data integrity by integrating PostgreSQL for production and H2 for local testing.Secured user accounts by implementing JWT-based authentication and password hashing with BCrypt. | |
| Handwritten Equation Recognition using CNNs | March 2025 – June 2025 |
| Python, PyTorch, PIL, NumPy, MNIST | |
| <ul style="list-style-type: none">Designed a custom multi-headed CNN architecture to decode 5-token arithmetic equations with digits and operators.Achieved 87.71% test accuracy after 70 training epochs with minimal overfitting.Generated a custom dataset using the Python Imaging Library (PIL) and MNIST digits to simulate scanned math problems.Implemented independent token-wise prediction heads and trained using multi-output cross-entropy loss. | |

WORK EXPERIENCE

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| Black Fox Security Solutions | June 2024 – Aug 2024 |
| Software Development Intern | Aurora, IL |
| <ul style="list-style-type: none">Refactored and debugged Python and JavaScript scripts to improve system reliability and reduce runtime errors.Accelerated feature updates by collaborating with developers via Git and GitHub.Enhanced testing efficiency by creating automation scripts in Python.Built Agile development understanding by participating in daily standups and sprint planning | |
| Humble Properties | Oct 2021 – Sept 2022 |
| IT Support Specialist | Chicago, IL |
| <ul style="list-style-type: none">Resolved an average of 20 hardware and software issues per week, providing prompt and effective technical support to users.Effectively communicated technical solutions to non-technical users, ensuring a high level of user satisfaction and achieving a 95% satisfaction rate in user feedback surveys. | |

TECHNICAL SKILLS

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| Languages: Python, Java, TypeScript, HTML, CSS, C++, SQL |
| Frameworks/Libraries: Django, React, Node.js, Next.js, Spring Boot, Docker, Express |
| Databases: PostgreSQL, MySQL, MongoDB |
| Tools/Platforms: Git, GitHub, Linux, Postman, VS Code, AWS, OpenAI API, Google Places API |
| Machine Learning: NumPy, Pandas, scikit-learn, PyTorch, TensorFlow, OpenCV, Matplotlib |