

Agha Noor Ahmed Khan

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EDUCATION

Drake University — Des Moines, IA

Bachelor of Science in Computer Science (Expected Dec 2025)

- Relevant Coursework: Data Structures & Algorithms, Database Management, Object-Oriented Programming, Machine Learning, Software Engineering.
- Dean's List honoree; active in campus leadership and innovation projects.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, SQL, HTML/CSS

Frameworks: React, Flask, PyTorch, JavaFX

Tools: Git & GitHub, Azure, Cloudflare, VS Code, Jupyter Notebook

Concepts: OOP, Full-Stack Development, Machine Learning, UI/UX Design, Cloud Deployment

PROJECTS

Library Management System (JavaFX) — CS 67 OOP Project

- Designed a modular JavaFX application (MVC) for circulation workflows: borrowing, returns, search, sorting, and persistence.
- Optimized event handling and scene transitions; documented design for maintainability.

Bird Species Classifier (PyTorch) — CS 167 Machine Learning

- Fine-tuned ResNet, VGG, and AlexNet with augmentation and LR scheduling; benchmarked model performance and visualized results in Colab.
- Delivered a comparative report with metrics and learning curves.

AI Street-Sweeping Agent (Python) — AI & Search Algorithms

- Implemented BFS and A* agents over OpenStreetMap-style grids; engineered heuristics and measured route efficiency.
- Summarized results with visuals and markdown; extended with optimization for extra credit.

Azure Web App — Flask on Azure SQL (Software Engineering)

- Developed and deployed a Flask app backed by Azure SQL; configured pipelines, environment variables, and CI workflows with Azure DevOps.
- Collaborated via GitHub using agile sprints and issue tracking.

EXPERIENCE

Innovation Lab Intern — Wellabe (Drake University)

- Researched senior health & wellness trends; proposed measurable KPIs and digital engagement strategies for Wellabe.
- Presented data-driven insights and dashboards tying independence, cost, and technology engagement.

Access & Success Coach — Drake University

- Mentored 50+ students per semester on academic skills, digital literacy, and time management; delivered technology setup/training.

President — Phi Gamma Delta (Fiji) Delta Iota Chapter

- Led operations, recruitment, and event strategy for 60+ members; drove community engagement via digital branding and partnerships.

ACHIEVEMENTS & ADDITIONAL

- Dean's List — Drake University.
- Completed Insurance Innovation Lab internship under Prof. Kevin Croft.
- Founder, Agha Noor Media — created media and educational content.

Interests: Artificial Intelligence, Cloud Infrastructure, Creative Technology, Public Speaking

Languages: English (Fluent), Urdu (Native) | Location: Des Moines, Iowa, USA