

# Austin Samuel

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## EDUCATION

### Illinois Institute of Technology

Chicago, IL

*Bachelor of Science in Computer Science, Minor in Business – 3.5*

*Aug. 2022 – Dec. 2025*

- Relevant Coursework: Data Structures and Algorithms, Theory of Computation, Linear Optimization, Calculus, Statistics

### iAcademy High School

Makati, Philippines

*Magma Cum Laude – 92%*

*Jun. 2020 – May 2022*

## EXPERIENCE

### AI Technical Analyst

Jan. 2025 – Mar. 2025

*Kaplan Institute*

*Chicago, IL*

- Identified **10+ Ollama** pipeline bottlenecks within **2 AI startups**, rejecting them for **\$540K** Kaplan grant.
- Worked closely with **10+ AI Professionals** and advised against using 2.7B-parameter SLMs in complex reasoning tasks; instead, advised Chain-of-Thought for **30% fewer hallucinations**.
- Benchmarked **7 small language models (SLMs)** (Phi-3, Mistral 7B, Gemma 2B, TinyLLaMA, OLMo 1B, Mistral 7B, Qwen1.5-1.8B) for recommending alternatives **over llama3.1 8B**.

### ML Researcher

Sep. 2023 – Jan. 2025

*Illinois Institute of Technology*

*Chicago, IL*

- Trained a random forest model using **SciKit-Learn, NumPy** to detect Multiple Sclerosis lesions in 3D MRI scans with **99.6% accuracy**, outperforming a leading PHD thesis using only **20% of the training data**.
- Analyzed **1000+ annotated MRI (T1, T2, T3)** volumes along with **UChicago Medicine** students under the supervision of Professor Keigo Kawaji.

### Software Engineer

Aug 2022 – Dec 2022

*JPMorgan Chase*

*Chicago, IL*

- Led full-stack development of a financial planning dashboard using **Spring Boot, Bootstrap, and JavaScript** building **RESTful APIs** for adding transactions and retrieving real-time financial data.
- Designed and implemented real-time data streaming for expense tracking using **Kafka** like message queuing, reducing dashboard refresh lag by **50%**.
- Used **RPA** to extract financial data from excel to transfer into visualized dashboards, reducing manual processing time by **75%**.
- Created 20+ **JIRA** dashboards to visualize task progress and improving spring predictability.

### Software Engineer Intern

Jun 2021 – Aug 2021

*Tata Consultancy Services*

*Makati, Philippines*

- Built an automated mailing bot using **C#** in **UiPath**, reducing manual workload by **70+ hours monthly** and reducing human error by **95%**.
- Reduced manual QA workload by **30%** by designing and deploying **30+** automated test cases using **.NET, Python** and **Selenium**.
- Designed a email **REGEX** pattern generator using **C#**, reducing **200+ hours monthly** on HR processing time.

## PROJECTS

### AuthIQ | Python - OpenCV, Pandas, Keras, Tensorflow, NumPy

May 2025 – July 2025

- Developed an eKYC face verification app using **CNN** with an **92%** accuracy with an agumented dataset of **20,000** images.
- Designed with a **Keras** pipeline and fine-tuned to get a recall score of **90%** and precision score of **88%**.
- Trained a Siamese CNN model from scratch based on Prof. Ruslan Salakhutdinov paper from **University of Toronto**.

## TECHNICAL SKILLS

**Languages:** Java, Python, C/C++, MySQL, JavaScript, HTML/CSS, PHP, TypeScript

**Frameworks/Libs:** React, Pandas, Matplotlib, Flask, RESTful APIs, scikit-optimize, NumPy, Node.JS, Django

**Technologies:** AWS, Azure(**Certified**), RPA(**Certified**), Blockchain, Linux, Git

**Key Skills:** Machine Learning, OOP, CNN, Bayesian/LP Optimization, Agile/Scrum, Cloud Computing