

# Austin Samuel

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## EDUCATION

<b>Illinois Institute of Technology</b>	Chicago, IL
<i>Bachelor of Science in Computer Science, Minor in Business – 3.5</i>	<i>Aug. 2022 – Dec. 2025</i>
• Relevant Coursework: Data Structures and Algorithms, Theory of Computation, Linear Optimization, Calculus, Statistics	
<b>iAcademy High School</b>	Makati, Philippines

<i>Magma Cum Laude – 92%</i>	<i>Jun. 2020 – May 2022</i>
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## EXPERIENCE

<b>AI Technical Analyst</b>	Jan. 2025 – Mar. 2025
<i>Kaplan Institute</i>	<i>Chicago, IL</i>
• Identified <b>10+</b> Ollama pipeline bottlenecks within <b>2 AI startups</b> , rejecting them for <b>\$540K</b> Kaplan grant.	
• Worked closely with <b>10+ AI Professionals</b> and advised against using 2.7B-parameter SLMs in complex reasoning tasks; instead, advised Chain-of-Thought for <b>30% fewer hallucinations</b> .	
• Benchmarked <b>7 small language models (SLMs)</b> (Phi-3, Mistral 7B, Gemma 2B, TinyLLaMA, OLMo 1B, Mistral 7B, Qwen1.5-1.8B) for recommending alternatives over <b>llama3.1 8B</b> .	
<b>ML Researcher</b>	Sep. 2023 – Jan. 2025
<i>Illinois Institute of Technology</i>	<i>Chicago, IL</i>
• Trained a random forest model using <b>SciKit-Learn, NumPy</b> to detect Multiple Sclerosis lesions in 3D MRI scans with <b>99.6% accuracy</b> , outperforming a leading PHD thesis using only <b>20% of the training data</b> .	
• Analyzed <b>1000+ annotated MRI (T1, T2, T3)</b> volumes along with <b>UChicago Medicine</b> students under the supervision of Professor Keigo Kawaji.	
<b>Software Engineer</b>	Aug 2022 – Dec 2022
<i>JPMorgan Chase</i>	<i>Chicago, IL</i>
• Led full-stack development of a financial planning dashboard using <b>Spring Boot, Bootstrap, and JavaScript</b> building <b>RESTful APIs</b> for adding transactions and retrieving real-time financial data.	
• Designed and implemented real-time data streaming for expense tracking using <b>Kafka</b> like message queuing, reducing dashboard refresh lag by <b>50%</b> .	
• Used <b>RPA</b> to extract financial data from excel to transfer into visualized dashboards, reducing manual processing time by <b>75%</b> .	
• Created 20+ <b>JIRA</b> dashboards to visualize task progress and improving spring predictability.	
<b>Software Engineer Intern</b>	Jun 2021 – Aug 2021
<i>Tata Consultancy Services</i>	<i>Makati, Philippines</i>
• Built an automated mailing bot using <b>C# in UiPath</b> , reducing manual workload by <b>70+ hours monthly</b> and reducing human error by <b>95%</b> .	
• Reduced manual QA workload by <b>30%</b> by designing and deploying <b>30+ automated test cases using .NET, Python and Selenium</b> .	
• Designed a email <b>REGEX</b> pattern generator using C#, reducing <b>200+ hours monthly</b> on HR processing time.	

## PROJECTS

<b>AuthIQ</b>   <i>Python - OpenCV, Pandas, Keras, Tensorflow, NumPy</i>	May 2025 – July 2025
• Developed an eKYC face verification app using <b>CNN</b> with an <b>92%</b> accuracy with an augmented dataset of <b>20,000</b> images.	
• Designed with a <b>Keras</b> pipeline and fine-tuned to get a recall score of <b>90%</b> and precision score of <b>88%</b> .	
• Trained a Siamese CNN model from scratch based on Prof. Ruslan Salakhutdinov paper from <b>University of Toronto</b> .	

## TECHNICAL SKILLS

<b>Languages:</b> Java, Python, C/C++, MySQL, JavaScript, HTML/CSS, PHP, TypeScript
<b>Frameworks/Libs:</b> React, Pandas, Matplotlib, Flask, RESTful APIs, scikit-optimize, NumPy, Node.js, Django
<b>Technologies:</b> AWS, Azure(Certified), RPA(Certified), Blockchain, Linux, Git
<b>Key Skills:</b> Machine Learning, OOP, CNN, Bayesian/LP Optimization, Agile/Scrum, Cloud Computing