

# Austin Samuel – Software Engineer

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## SUMMARY

Result-driven computer science junior with 20+ end-to-end projects, 2+ years of work experience and expertise in full-stack development, android development, UI automation, and machine learning.

## EDUCATION

Illinois Institute of Technology, Chicago

AUG 2022 - Current

### Bachelor of Science in Computer Science

- Coursework: CS 331(Data Structures & Algorithms), CS 350(Assembly), CS 425(Database), MATH 332(Linear Algebra), CS 440(Programming Languages & Paradigms), CS 430(Introduction to Algorithms).
- **Notable Projects:** Real Estate Website with DB connection (CS 425), DFS Water Jug Problem (CS 331).
- Board Member of Machine Learning Club and ACM(Association of Computer Machinery) club member.

## SKILLS

- C++, C, C#, Java, Python, JavaScript, CSS, HTML 5, SQL, SQL Server, ML(Machine Learning), Shallow Learning, Pytorch, Mobile Development(Android Studio), Bootstrap, PHP, Git, GitHub, Scrum, Agile, AI(Artificial Intelligence), UI/UX tools, .NET, Shell, MATLAB, UiPath Certified RPA Associate(*Certification*), Robotic Process Automation, Leadership skills, Interpersonal Communication Skills, UI Automation, Blockchain Developer IBM(*Certification*), Azure AI-900(*Certification*), HuggingFace, LangChain, React JS, Three.JS.

## PROFESSIONAL EXPERIENCE

### Technical Genisys Analyst

Kaplan Institute, Chicago, IL

JAN 2025 – MAR 2025

- Conducted technical due diligence (tech stack/ML models) of multiple AI startups that applied for the \$500K TechForward Kaplan grant.
- Compared algorithmic differentiation amongst AI startups using Transformer, GANs, and Small Language Models.
- **Key Skills:** LangChain, Ollama, Research Practices.

### Research Associate – ML Model Engineering for MRI Data

Illinois Institute of Technology, Chicago, IL

SEPT 2023 – CURRENT

- Copiloted & developed machine learning models using PyTorch for identifying Multiple Sclerosis with MRI data, collaborating with UChicago Medicine. Model outperformed PHD student thesis with 2/10<sup>th</sup> training data and an accuracy of 99.7%.
- **Key Skills:** PyTorch, MATLAB, ML algorithms, Data Cleansing, Research Practices.

### Software Engineer Intern

Tata Consultancy Services (TCS), Makati, Philippines

JUN 2021 – AUG 2021

- Implemented 30+ automated test cases for Email Automation workflows, reducing manual testing time by ~80%.
- Delivered supervisor targets and streamlined app data flow processes for a ~20% performance boost.
- **Key Skills:** C++, .Net Libraries, Email Automation, UiPath, RPA, Data Scraping.

## PROJECT EXPERIENCE

### JP Morgan Chase Financial Dashboard – Collab with P33 Chicago

Chicago, IL

AUG 2022 - DEC 2022

- Spearheaded a team of 5 under JPMC mentorship on creating a financial dashboard and planner. Only team among 15+ teams to create a fully functional dashboard with real-time data streaming and visualization.
- **Key Skills:** HTML 5, CSS, JavaScript, Bootstrap, Java, JotForms, Agile Methodologies, Leadership skills.

## HONORS AND ACHIEVEMENTS

- Dean's List at Illinois Tech, multiple semesters | 3rd Place in National Math League | 1<sup>st</sup> place among 100+ software devs - VacclInfo App - Demo: [iacademyspbl.wixsite.com/10thpblcycle/rb-sd11](http://iacademyspbl.wixsite.com/10thpblcycle/rb-sd11)

## REFERENCES & LANGUAGE FLUENCY

- Dr. Keigo Kawaji (IIT BioMed Research): +1 646-620-4166 | Arlene Aguinaldo (TCS Supervisor): [arlene.aguinaldo@tcs.com](mailto:arlene.aguinaldo@tcs.com)
- English(Fluent), Tamil (Native Speaker), Hindi (Intermediate), Spanish(Beginner)