

NICHOLAS KORCZYNSKI

Mahwah, NJ 07430

201-248-4082

thelostamount@gmail.com

LinkedIn: [linkedin.com/in/nicholas-korcynski/](https://www.linkedin.com/in/nicholas-korcynski/)

Portfolio: therealmanual.github.io/PersonalPortfolio/

EDUCATION

Rowan University | Glassboro, NJ *Bachelor of Science in Computer Science* | Expected May 2026

- **Accelerated Track:** Completing a rigorous 4-year curriculum in only 3 years
- **Honors:** Dean's List (Fall 2025 – 3.465 GPA on a 4.0 Scale)
- **Research:** Enrolled in *Computer Science Research I* (Spring 2026), focusing on applied machine learning and computer vision.
- **Relevant Coursework:** Design & Analysis of Algorithms, Linear Algebra, Software Engineering, Intro to Information Visualization, Cyber Security, Operating Systems, Data Structures

PROFESSIONAL CERTIFICATIONS (AI & ML SPECIALIZATION)

- **Microsoft Certified: Azure AI Engineer Associate** | Nov 2025
 - Validated expertise in planning and managing Azure AI solutions, including NLP, computer vision, and generative AI integration.
- **IBM AI Developer Professional** | Nov 2025
 - Comprehensive training in building AI applications, covering deep learning, neural networks, and Python-based AI development.
- **NVIDIA Certified Associate: AI Infrastructure and Operations** | Oct 2025
 - Specializing in GPU architecture, AI cluster management, and accelerated computing operations.

ACADEMIC & TECHNICAL PROJECTS

OneNote Whiteboard Scanner | *Computer Vision & AI Application*

- Engineered a Windows desktop application utilizing Python and OpenCV to digitize physical whiteboard content.
- Machine learning models of the scanner reaching a .9311 F1 Score for accuracy among other quantifiable results.
- Implemented computer vision algorithms to clean and convert raw image data into vector graphics.
- Integrated Microsoft Graph API to automatically synchronize processed outputs directly to OneNote user notebooks.

SceneIt | *AI-Powered Recommendation Engine*

- Developed a full-stack movie discovery platform featuring a swipe-based interface and Google OAuth authentication.
- Integrated Google's Gemini API to build a personalized recommendation engine that analyzes user preferences in real-time.

- Built using React, TypeScript, and Node.js, demonstrating the ability to deploy AI models within modern web frameworks.

Study Hub | *Interactive Learning Platform*

- Designed a static study platform that dynamically transforms structured JSON data into interactive flashcards, quizzes, and games.
- Architected the system to function entirely without a traditional backend, optimizing for speed and portability.

PROFESSIONAL EXPERIENCE

The Home Depot | Atlanta, GA (Remote/Hybrid)

Software Engineering Intern | Summers 2024 & 2025

Incoming Software Engineer I | *Offer Accepted, Starts May 2026*

- **Production Implementation:** Delivered customer-facing React components backed by internal APIs for HomeDepot.com
- **Production Projects:** All projects are currently live in production, impacting a consistent 178 million monthly users.
- **Optimization:** Collaborated with senior engineers to optimize frontend performance, resulting in faster load times for high-traffic pages.
- **Custom Package Designer:** Built a "Custom Package Designer" using ReactJS, enabling customers to bundle appliances dynamically from the catalog.
- **Agile Collaboration:** Worked across design, product, and operations teams to ship features within two-week Agile sprints.

TECHNICAL SKILLS

- **Languages:** Python, Java, JavaScript (ES6+), TypeScript, SQL, C++.
- **AI/ML Frameworks:** OpenCV, TensorFlow, PyTorch, Gemini API, Azure AI Services.
- **Web & Tools:** React.js, Node.js, GraphQL, Git, AWS Amplify, Docker.

RESEARCH INTERESTS

- **Applied Machine Learning**
- **Computer Vision**
- **Human-Centered AI**
- **Scalable AI Systems**