

Thomas Gammer

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EDUCATION

New Jersey Institute of Technology	Newark, New Jersey
<i>Bachelor of Science in Computer Science</i>	May 2026
GPA: 3.8/4.0 Relevant Coursework: Artificial Intelligence, Machine learning, Data Structures, Intensive Programming in Linux	
Bergen Community College	Paramus, New Jersey
<i>Associates of Science in Computer Science</i>	May 2024
GPA: 3.8/4.0 Relevant Coursework: Linear Algebra, Discrete Math	

SKILLS

Python, TensorFlow, PyTorch, Scikit-learn, YOLOv5/v8, Pandas, NumPy, Matplotlib, C, C++, GitHub, SQL, Microsoft Power Automate, Microsoft Copilot Studio

PROFESSIONAL EXPERIENCE

Project Elevate	Newark, New Jersey
<i>Senior AI Developer</i>	January 2025 – Present

- Collected and labeled thousands of images to train a custom YOLOv8 object detection model, deployed via NVIDIA DeepStream on Jetson devices connected to Newark's citywide fiber optic network to enable real-time, edge-based illegal dumping detection and automated alerts to police and city officials.
- Co-developed a virtual archive system for Newark City Hall that scans and uploads documents to cloud storage, performs chunk embedding, and stores them in ChromaDB, and integrates with LLaMA-based department-specific chatbots to enable internal staff to query city records using natural language.
- Designed AI education curricula and led interactive workshops, guiding students in applying machine learning concepts to real-world problems.
- Contributed to high-level strategic planning and AI direction in a fast-paced, early-stage startup environment.

Bausch + Lomb	Bridgewater, New Jersey
<i>Senior AI Innovation Developer Intern</i>	June 2025 – August 2025

- Automated the company's conflict of interest form process, moving from paper forms to automatically sent Microsoft Forms and Microsoft Teams approvals.
- Led a team of two interns to develop an internal eCommerce chatbot to accurately answer user questions based on hundreds of internal documents.
- Enhanced the company's ServiceNow chatbot to support IT ticket submissions and deliver relevant support information to users.

<i>AI Innovation Developer Intern</i>	June 2024 – August 2024
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- Developed a company-wide Chatbot integrated into Microsoft Teams for use by all of employees. The Chatbot provides answers for company information, schedule meetings, set reminders, generate images, and provides a summary of your emails.
- Created a chatbot for the HR department in Waterford, Ireland. Chatbot provides responses to commonly asked HR questions as well as provides resume help and interview preparation.
- Created a Microsoft Power Automate flow for the Bausch + Lomb Pharmacovigilance department to distribute AI generated approvals to over 50 different countries and store the responses into a SharePoint list.

Projects

Retrieval-Augmented Generation (RAG) System for Robotics Information	December 2024
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- Built a RAG system that scraped robotics-related GitHub repositories, stored embeddings in a vector database and generated context-aware answers using a locally hosted LLaMA 3 model.
- Developed using Python, Qdrant, MongoDB, and Ollama

Deep Learning Image Classifier on CIFAR-10 Dataset	September 2024
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- Constructed an image recognition model to identify objects present in the CIFAR-10 dataset. This model used convolutional neural networks along with multiple regularization techniques to improve accuracy and reduce overfitting. This model produced an accuracy of 82.34% on the test set.
- Developed in PyCharm using TensorFlow and Keras

HOBBIES AND INTERESTS

- Competed in crew at the Varsity level in High School, placing in state finals.
- Play multiple instruments such as guitar, piano, and ukelele.
- Enjoy sports such as pickleball, spikeball, tennis, rowing, and bowling.