# Anthony Campos

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## Education

**Northeastern University, Khoury College of Computer Sciences** **Boston, MA**
*Candidate for Bachelor of Science Degree in Computer Science and Business Administration* **September 2023 - May 2027**
*Concentration:* **Financial Technologies** **GPA:** 3.71

## Technical Knowledge

**Languages:** Java, HTML/CSS, Python, JavaScript, Typescript, SwiftUI
**Technologies/Frameworks/Tools:** Git, Figma, React Native, Next.js, React.js, Expo, Firebase, Supabase, AWS Lambda, Appwrite, Flask, Tailwind CSS, Framer Motion, Stripe API, AWS Textract, Claude API, RAG, HuggingFace, ChromaDB

## Professional Experience

**Data Analyst Internship** **Remote**
*Aspire Institute* **April 2024 - June 2024**

- Analyzed key metrics (click rates, open rates, themed content performance) from Aspire Institute's alumni newsletter and weekly digests, providing suggestions to enhance engagement and adapt content flow to help reach their goal of impacting 1,000,000 young leaders annually by 2027.
- Utilized Excel and Tableau to analyze data, creating visualizations, and reports to effectively communicate findings, contributing to Aspire Institute's global impact across 180+ countries and 100K+ young adults' lives impacted.

## Projects

**Modular Personal AI Memory Bank** **December 2024**

- Designed a modular memory bank system enabling text message summarization and NLP-driven search capabilities.
- Implemented a RAG model using HuggingFace's sentence-transformers, ChromaDB, and Claude to provide semantic search, date filtering, and personalized AI responses.

**Logistics Optimization with Intelligent Loading Algorithms** **September 2024**

- Developed an intelligent loading optimization platform, built with CloudConvert, AWSTextract, Claude API, experimenting with better greedy algorithms for more efficient loading instructions.
- Successfully deployed at Moran Logistics for Target's cardboard supply chain operations.

**Automated Academic Management Platform** **June 2024**

- Developed Nota, a comprehensive mobile application for students using React Native and Expo, with Appwrite as the backend, streamlining academic organization and planning.
- Integrated AWS Lambda functions to efficiently process and parse student schedules and transcripts, reducing server costs by 40% compared to traditional OCR methods.
- Leveraged the Claude API for data extraction from uploaded documents allowing students to copy-paste their schedules and transcripts, reducing onboarding time from 30 minutes to under 5 minutes.

**Scalable Food Delivery System with Payment Integration** **March 2024**

- Built an MVP using Flask, HTML/CSS, and Stripe API to provide affordable food delivery for students.
- Leveraged a subscription-based model to reduce delivery costs by up to 50%.
- Launched with 40+ orders and significant site traffic; now developing full stack iOS app with SwiftUI, Flask, and MySQL.

## Involvement

**AI Perception Research Lab** **September 2024 - Present**
*Operations Manager & Lead of NLP Research Project*

- Managing operations at the AI Research Lab and Leading a research project on uncertainty-aware dialogue systems, focusing on probabilistic reasoning and adaptive conversational AI.
- Developing uncertainty estimation methods and integrating knowledge graphs to enhance contextual understanding and decision transparency.
- Exploring Bayesian Neural Networks, Variational Inference, and adaptive strategies for personalized, robust dialogue responses.

**Northeastern AI Club** **April 2024 - Present**
*E-Board Member*

- Developed and executed a comprehensive 4-session AI bootcamp, focusing on foundational mathematics, data preprocessing, machine learning, and neural networks, integrating hands-on Python programming and real-world dataset applications to enhance participant learning outcomes.
- Built movement scripts for Pololu robots in SwarmScape, enabling disease detection with Google Vertex AI.
- Built a Python-based tool with OpenAI API integration, featuring a custom algorithm and responsive frontend, to generate personalized professor rankings; delivered a functional prototype in 48 hours, reaching the hackathon finals among 27 teams.

**HSF Scholar** **June 2024 - Present**

- Selected from a pool of around 124,000 students from across the nation, with an acceptance rate of ~8%. Recipients are selected based on academic merit and involvements.