

# Victor Olivo III

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## EDUCATION

### Rutgers University, School of Arts and Sciences | New Brunswick, NJ

Bachelor of Science in Computer Science | Honors College

Minor: Psychology | Relevant Courses: Data Structures, Computer Architecture, Discrete Structures I & II, Software Methodology, Algorithms, Systems Programming, Data Management for Data Science, Linear Algebra

**Publication:** *Personalization & Privacy: The Give & Take Paradox*, analyzing algorithmic filtering & data practices through a privacy lens- Presented at Rutgers University Research Writing Conference (April 2025)

May 2027

GPA: 3.81

## TECHNICAL SKILLS, CERTIFICATIONS, & AWARDS

**Programming Languages & Frameworks:** Java, Python, JavaScript, C, HTML/CSS, React, Node.js, R/RStudio, Git, Figma

**Tools & Technologies:** Flask, Spring Boot, PostgreSQL, MongoDB, AWS, Pandas, TensorFlow, Selenium, Agile/Scrum, Linux

**Certifications:** [Meta Back-End Developer Professional Certificate](#), [AT&T Technology Academy](#), [Microsoft Excel](#), [AWS Educate](#)

[Machine Learning Foundations](#), [Introducing Generative AI with AWS CodePath Advanced Technical Interview Prep \(TIP 102\)](#)

**Awards:** 1st Place | Rutgers & Fiserv Hackathon (Vault: secure file sharing & messaging platform, April 2025), HSF Scholar ('24,'25)

## EXPERIENCE

### Hawl Technologies, LLC (Startup) | Remote

July 2025- December 2025

Software Engineer Intern- Data Team Lead

- Led data team of 3 interns; collaborated with UX, backend, & CEO to ship Chrome extension powering AI memory across LLMs
- Integrated Python **backend API** with deterministic UUIDs and session caching, **cutting duplicate writes ~85%, DB errors >90%, and boosting capture accuracy to 99%**
- Re-factored platform manager with CSP-safe pipelines & backfill, **reducing dropped messages by 95%**, enabling real-time sync
- Built **semantic search** (384-dim embeddings + hybrid re-ranker) to boost relevant hits and prevent empty results

### AI4ALL | Remote

May 2025- October 2025

Ignite Summer Fellow

- Collaborate with 5 engineers to build production-ready ML pipeline (Python, Flask, scikit-learn, React) processing **9K+ records**
- Delivered **R<sup>2</sup> = 0.68** and surface key startup success drivers, improving **model transparency** for technical + non-technical users

### Pariveda | Remote

June 2025- August 2025

Career Accelerator Intern

- Collaborated in an **Agile team** to prototype an **AI/ML solution** for hotels, projecting **15–20% revenue growth** in the first year
- Iteratively designed and presented technical architecture in sprints, strengthening SWE + consulting workflows

### The Takeoff Institute | Remote

June 2025- August 2025

Engineering Summer Fellow

- Designed **backend architecture** for national education platform with **AWS S3, PostgreSQL, ElasticSearch, securing 5K+ users**
- Developed **RESTful APIs with token auth + encryption** to enforce secure access and **scale content delivery**

## PROJECTS

### [Out of the Loop - AI-Powered News Sentiment Platform](#)

June 2025- December 2025

Technologies: Python, Flask, SQLAlchemy, BeautifulSoup, Selenium, scikit-learn, Hugging Face Transformers, Postman

- Architected and deployed full-stack media analysis app on **AWS**, provisioning **EC2 (Flask backend), RDS (PostgreSQL), S3/CloudFront (React frontend)**, with **CI/CD pipeline** and Sentry monitoring
- Developed a custom sentiment analysis engine by fine-tuning a **BERT regression model**, achieving a **0.14 MAE** on a news dataset and enabling **zero-cost, real-time analysis by eliminating external API dependencies**

### AI-Powered TikTok Market Research Optimizer

June 2025

Technologies: Python, Flask, Playwright, Pandas, NLTK, Google Gemini AI, JavaScript, Chart.js, HTML/CSS

- Engineered a full-stack app to automate TikTok market research, **reducing trend discovery time from hours to < 2 minutes**
- Built a secure Playwright scraper with cookie-based authentication, reliably capturing **1,000+ video data points per session**
- Designed an AI-powered recommendation engine (Gemini + NLTK), generating 3+ content concepts per run, **driving 80% higher engagement and increased views for test creators**

## AFFILIATIONS

ColorStack (Outreach Chair), CodePath, Code2040, Propel2Excel, Society of Hispanic Professional Engineers, Rutgers Catholic