

JOSUE FLORES

Flores.Josue427@gmail.com • 917-600-6636 • Brooklyn, NY • [linkedin.com/in/jflores427](https://www.linkedin.com/in/jflores427) • [jflores427.com](https://www.jflores427.com)

EDUCATION

Master of Science, Computer Science, *NYU Tandon School of Engineering*

GPA: 3.945

EGD: May 2026

Bachelor of Engineering, Computer Engineering, *The City College of New York*

GPA: 3.670

June 2022

Award(s): Best Research Presentation "The Impact of Adversarial Within CNN-Based Image Classification"

Aug 2020

Relevant Coursework: Data Structures, Algorithms, Operating Systems, Computer Organization & System Design, Computer Networks, Programming Paradigms, Probability & Statistics, Calculus I-III, Linear Algebra, Software Engineering-I, Principles of Database Systems, Information Security & Privacy, Interactive Computer Graphics, Machine Learning, Computer Vision, VR/AR

TECHNICAL SKILLS

- **Programming Languages: (Proficient)** Java, Python, TypeScript, JavaScript, C++ **(Familiar)** C#
- **Libraries/Frameworks: (Proficient)** React, Flask, Bootstrap 5, MUI, Spring, Spring Boot **(Familiar)** Django, Express
- **Database-Related: (Proficient)** MySQL, PostgreSQL, REST APIs, MongoDB **(Familiar)** Supabase, Firebase
- **SDLC/Software Design: (Proficient)** Agile/Scrum, Web Services, OOD, SOLID **(Familiar)** Microservices, SOA, GoF Design
- **Other: (Proficient)** HTML5, CSS3, Git, GitHub, JUnit 5, Docker, OpenGL **(Familiar)** Kubernetes, AWS, Azure, Node.js, Jest

PROFESSIONAL EXPERIENCE / INTERNSHIPS

CodePath - Tech Fellow, Engineering Education, Remote

May 2024 - Current

- Mentored **180+** students in advanced **Data Structures & Algorithms (DSA)**, guiding them through LeetCode-style problems to sharpen both their technical and behavioral interview skills
- Hosted weekly office hours to deconstruct complex DSA concepts, fostering robust problem-solving methodologies for several algorithmic patterns

AT&T - TDP Software Engineer Intern, Cricket Wireless, Atlanta, GA

June 2025 - Aug 2025

- Developed a **Spring REST API** service to enhance customer personalization for a **13M+** user base by processing real-time customer-based GUID events from **Azure Service Bus**
- Enabled product-driven **Exploratory Data Analysis** by persisting event-driven user data into **MongoDB**, establishing a reliable source for enrollment trends and user behavior
- Decreased **MongoDB** query latency by **89%** for customer-facing microservices by engineering a consolidation service that unifies disparate customer data streams into a concise profile that updates at a specified interval
- Built and trained an **XGBoost/HistGradient ML** model with **97%** accuracy to identify and mitigate cybersecurity threats as part of a network micro-segmentation proof-of-concept
- Tech Stack: **Java, Azure, Spring Boot, MongoDB, Hops Scotch, Python, Flask, React, Docker, Kubernetes, CI/CD**

MoneyLion - Backend Software Engineer Intern, Product Engineering, New York, NY

June 2024 - Aug 2024

- Automated the generation of **25K+** video assets by engineering a **multithreaded Spring REST API**, drastically reducing manual content creation efforts
- Ensured service reliability by achieving **80% code coverage** through substantial **JUnit 5 unit and integration** tests
- Eliminated 1-2 weeks of recurring work by creating a **Spring** service to automate content tag assignment for **25K+** assets
- Simplified the content moderation workflow by **25%** by integrating an **OpenAI**-powered sentiment analysis service for over **180K** user comments
- Tech Stack: **Java, Spring, Spring Boot, SOA, OpenAI, Contentful, AWS DocumentDB, MongoDB, JUnit 5, Datadog**

NSF - SCRP-CCNY Research Intern, STEM Community Research Program, Remote

June 2020 - Aug 2020

- Constructed, trained, and evaluated **5+** distinct **Convolutional Neural Network (CNN)** architectures to perform supervised image classification
- Assessed model robustness by subjecting CNNs to **adversarial attacks** (FGSM, BIM) and analyzing the resulting impact on classification accuracy and confidence scores

PROJECTS

SynapWell | Team of 3

[GitHub](#) | **May 2025**

- Developed a mental health activity recommendation ML workflow that accounts for a user's mood, wellness state, weather condition, & preferred activities employing **Regression Models, LLMs, PyTorch, Scikit, HuggingFace, Numpy, & Pandas**

CampusConnect | Team of 5

[GitHub](#) | **May 2024**

- Created a club page & newsletter aggregator that empowers users to stay connected and abreast of all their followed clubs' posts and events within a centralized hub using **Django, React, TypeScript, Python, MUI, & SQLite3**

Energize | Team of 2

[GitHub](#) | **Dec 2023**

- Engineered a Smart Home Energy Management System that enables users to register service locations, enroll smart devices, and track their time-based energy metrics using **Python, Flask, React.js, MySQL, React-BS, & React Google Charts**