JOSUE FLORES

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EDUCATION

Master of Science, Computer Science, *NYU Tandon School of Engineering* ***GPA*: *3.917*** ***EGD:* Spring 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 Adversarials Within CNN-Based Image Classification" **Aug 2020**
Relevant Coursework: Data Structures, Algorithms, Operating Systems, Computer Organization & System Design, Computer Networks, Programming Paradigms, Discrete Math, Probability & Statistics, Calculus I-III, Linear Algebra, Principles of Database Systems, Software Engineering-I, Information Security & Privacy, Interactive Computer Graphics, Machine Learning

TECHNICAL SKILLS

- **Programming Languages: (Proficient)** Java, Python, JavaScript, TypeScript **(Familiar)** C++
- **Libraries/Frameworks: (Proficient)** React, Flask, Django, Bootstrap 5, MUI **(Familiar)** Spring, Spring Boot, Express
- **Database-Related: (Proficient)** MySQL, PostgreSQL, REST APIs, MongoDB **(Familiar)** Supabase, Firebase
- **SDLC/Software Design: (Proficient)** Agile/Scrum, Waterfall, OOD, SOLID **(Familiar)** SOA, GoF Design Patterns
- **Other: (Proficient)** HTML5, CSS3, Git/GitHub, Jira, Vite, JUnit 5 **(Familiar)** AWS, Jest, Node.js, Datadog, Docker
- **Certificates:** CodePath WEB102 Honors (Sep 2023 - Nov 2023), TIP 103, TF Leadership (June 2024 - Nov 2024)

PROFESSIONAL EXPERIENCE / INTERNSHIPS

CodePath - Tech Fellow, *Engineering Education,* Remote **May 2024 - Current**

- Engaged in the instruction of **60+** students by guiding and refining their technical interview preparation skills through solving LeetCode-style technical and behavioral-based questions
- Facilitated weekly office hour sessions to promote student understanding of Data Structures & Algorithms unit topics and proffer additional insight on establishing robust problem-solving methodologies for technical questions invoking these patterns

MoneyLion - Backend Software Engineer Intern, *Product Engineering*, New York, NY **June 2024 - Aug 2024**

- Engineered a **Spring REST API** service to automate the creation of Embedded Videos from **25K+** existing and subsequent Vertical Cards with **Java** multithreading, achieving ~80% code coverage employing **JUnit 5** unit & integration testing
- Automated the content tag assignment/categorization of **25K+** Vertical Cards by populating them with their respective missing content tags through backend data analysis and tag creations, eliminating 1-2 weeks of initial and subsequent manual revisions
- Employed **OpenAI** for generating the sentiment analysis of **180K+** comments, expediting both the Content Moderation and Discover teams' handling of comment use cases by simplifying **25%** of the moderation workflow
- Implemented **Datadog** alerts to monitor API and service performance relating to P95 latency, request calls, and request errors, generating a **4%** faster issue response time for the Discover team's Comment and Notification APIs
- Tech Stack: **Java, Spring, Spring Boot, SOA, OpenAI, Contentful, AWS DocumentDB, MongoDB, JUnit 5, Datadog**

ConEdison (O&R) - Computer Aide Temporary, *Information Technology*, New York, NY **June 2021 - Dec 2021**

- Generated a **~3%** increase in company workflow by engaging in the acquisition of IT-related software/hardware equipment such as (Adobe Acrobat, Microsoft Visio, Microsoft Project) for **75+** internal/external customers
- Facilitated the analytics process and IT operations of O&R as measured by monitoring the deployment status of active/inactive product licenses and the fulfillment of **45+** unresolved tickets within the End User Services department
- Tech Stack: **Oracle and Microsoft Excel**

NSF - SCRP-CCNY Research Intern, ***STEM Community Research Program*, Remote** **June 2020 - Aug 2020**

- Executed research in Machine Learning related to Supervised Learning by building, training, testing, and analyzing the performance of **5+** distinct Convolutional Neural Networks (CNNs) architectures for image classifications
- Gauged the robustness of these CNN architectures by interpolating several Adversarial Image-based attacks (FGSM, BIM) into these models and examining the identification and corresponding confidence levels between them
- Tech Stack**: Python, TensorFlow, Matplotlib, Google Colaboratory**

PROJECTS

CampusConnect | Team of 5 GitHub **| May 2024**

- Contrived 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**

CCNY ZERO | Team of 5 GitHub **| Dec 2021**

- Developed a graduate school program management system akin to CUNYfirst enabling Students/Instructors/Registrar to uniquely interact with the website according to their roles utilizing **JavaScript, React.js, HTML5, CSS3, & Firebase**