JESSI JOANDY PAVIA MARTINEZ

EDUCATION AND PROFESSIONAL DEVELOPMENT

New York University **Aug 2024 – May 2026**
Bachelor's degree in CS

Passaic County Community College **Aug 2021 – May 2024**
Associate's Degree of Arts in Mathematics GPA: 3.73/4.0.

Per Scholas **Mar 2024 - Present**
Certificate Software Development | Scrum Methodologies

IBM SkillsBuild **Mar 2024 – May 2024**
Certificate in Python Development | UX/IX Design

Harvard University CS50 **Nov 2023 - May 2024**
Certificate in Web Development. Event Driven Architecture | Micro frontend & Microservices

CareerSource **Nov 2023 -Feb 2024**
Certificate in Software Development Fundamentals. OPP, Design Pattern

Stanford University **Apr 2023 -Jun 2023**
Certificate Code in Place| Python

EXPERIENCE

HeadStarter Fellowship Jul 2024 - Sep 2024
Student Fellow *Remote*
- Built 5 AI projects in 5 weeks by using OpenAI, AWS ec2, lambda, Embeddings/ Vector DB, NextJs, StripeAPI with 95% accuracy.
- Developed projects from design to deployment leading 2+ engineering fellows during software development.
- Instructed by Bloomberg, Apple, and Capital One engineers on CI/CD and microservice patterns.

Freelancer Jun 2023 -Dec 2023
Python Developer *Remote*
- Developed web app features using **MySQL,** securing 1k users and streamlining connections between business with customers.
- Slashed payroll administration costs 25% by negotiating prices and collecting data from client ensuring continuation of services.
- Enhanced MongoDB backend security with encryption protocols for users, resulting in 100% data integrity

Passaic County Community College Aug 2021 - May 2023
Tutor Mathematics/Computer Science *Paterson, NJ*
- Mentored **250+** students in Computer Science and programming languages, achieving a **95%** passing rate.
- Coached all major programming fundamentals, resolving **90%** common programming errors and system issues.
- Collaborated with faculty to develop continuous improvement initiatives in the curriculum for system testing in CI lifecycle.

PROJECTS

Design.ai |GitHub **|** Firebase, Python, Next, Tailwind, Node, MongoDB, TensorFlow, PyTorch, Scikit, Google Collab Jul 2024 – Aug 2024
- Engineered a React full-stack AI web app, enabling users to create 3d architecture structures allowing custom textures.
- Built a Language Model for image segmentation/detection, training a dataset with more than 4k pictures.
- Led the development of a pipeline model in Python to parse multiple user requests with their existing 3D projects.

StreamWhere | github.com/JessiP23/streaming-application |JavaScript, HTML, CSS, ReactJS, Unix, WebRTC Mar 2024
- Constructed a React full-stack web app that allows owners of streams to transfer stream in other locations/devices.
- Increased time efficiency leveraging non-blocking I/O, handling multiple requests (database, network, file reading).
- Coordinated test planning for 30+ users, meeting a 95% success rate.

Hack Princeton | *JavaScript, Git, GitHub, AI, Go, Linux* Nov 2022
- Awarded Best Design at Hack Princeton, team of 4.
- Programmed a web app that detects fire within a range of 50km (about 31.07 mi), sending signals to the detector and instantly communicating with the fire department.

SKILLS
- JavaScript, TypeScript, React, MySQL, MongoDB, AWS, Redis, AWS, TensorFlow/PyTorch, Redux, Jest, Python, Neural Network, AI, Computer Vision, Machine Learning.

AWARDS
- **1st place** (Hack Princeton), 3rd place (Boba Hack), 3rd place (Moon Hack), Gemini API Developer (Upcoming), Lifehack (ML/AI)