

Jacinto Gomez

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EDUCATION

New York University - *M.S. Computer Science* - GPA: 3.933

Cornell University - *B.S. Mechanical Engineering*

Relevant Courses: *Data Structures, Algorithms, Machine Learning, Artificial Intelligence, Deep Learning*

**May 2024
December 2020**

SKILLS

- Programming Languages: C++, Python, JavaScript, Java, Kotlin, SQL
- Frameworks/APIs: Django, Node.js, Next.js, React, React Native, Docker, Flask
- Deployment/Management Tools: Git, GitHub, AWS, Heroku, Vercel, Kubernetes
- AI Tools: LangChain, RAG, TensorFlow, PyTorch

PROJECTS

May 2022 - Present

Tandon Bridge Lead Teaching Assistant, *Software Engineer (Flask, OpenAI API, LangChain, AWS, Heroku)*

- Created an AI interface where my students receive an analysis of the runtime of C++ functions
<https://github.com/jacintogomez/BigO-AI-Prediction>
- Designed a web page for my students to visualize common sorting algorithms
<https://github.com/jacintogomez/Algorithms-Online>
- Websites resulted in more streamlined teaching sessions and shortened office hour sessions by about 15 minutes

Foreign Language Conversation Bot, *Software Engineer (Flask, LangChain, Google Cloud, OpenAI API)*

- Created an interface where users can practice speaking a foreign conversation with an LLM
- Interface is prompted to carry out a low-level conversation with the user
- Offers support for 10 different foreign languages and provides user with a transcript of the conversation
<https://github.com/jacintogomez/Google-Hackathon-Gemini>

Augmented Library, *Software Engineer (Node.js, React Native, Django, Docker)*

- Software development team building an application for reserving study rooms in NYU's Dibner Library
- Designed page looks and routing for the Android team, enhancing user experience and functionality
- Collaborated with the iOS team to match the look/feel of the Android app for consistency across operating systems
<https://github.com/jacintogomez/NYUAR-Library-Backend>

NYC Accessible Streets, *Software Engineer (Django, AWS, Travis CI)*

- Connected special needs/handicapped users with live availability data from over 5000 locations across NYC
- Held daily scrum meetings on our development team to quantify progress and organize our next steps
- Implemented deployment on AWS, collection of drop-off point data, UI, and routing between pages in the app
<https://github.com/jacintogomez/nycaccessiblestreets>

EXPERIENCE

NYU Tandon School of Engineering, *Lead Graduate Teaching Assistant (C++, Python)*

May 2022 - May 2024

- Designed Python/shell scripts for autograding programming questions, reducing our grading work by 20-30% each exam
- Restructured courses to reflect administrative changes, improving flexibility and accessibility to ~500 students
- Managed 7 teaching assistants in the distribution of grading work for exams and homework
- Led weekly learning sessions to adapt topics in discrete math, C++, probability, operating systems and data structures to be more understandable to students without a proper computer science or technical background
- Produced weekly statistics from grading data to pinpoint areas of weakness in student understanding

NYU Center for Neural Science, *Software/Laboratory Engineer (C#, Unity, Python)*

January 2021 - December 2021

- Wrote and maintained eye-tracking and simulation code for postdoctoral neuroscience experiments
- Constructed a series of reusable VR training apparatuses to collect eye movement data from mice and monkeys
- Analyzed feedback data to improve simulations, resulting in faster turnaround time and more accurate experiment results
- Conducted rapid prototyping of new and damaged physical parts using Solidworks and 3D printing

ACTIVITIES

HeadStarter Fellowship, *Software Engineering Fellow*

July 2024 - Present

- Work with other fellows on weekly projects to keep up with the latest AI and development technology
- Meet with fellows to solve practice coding questions and network with industry professionals