

Patricia Marie Plan Guirao

patriciamarieg48@gmail.com | [GitHub](#) | [LinkedIn](#)

Education

New York University

September 2020-May 2024

B.A. in Computer Science and Data Science, Minor: Film Production, Current GPA: 3.7/4

Awards: CAS Presidential Honors Scholar (2021-2022), Dean's List (2020-2021)

Relevant Completed Coursework: Data Structures, Discrete Mathematics, Computer Systems Organization, Basic Algorithms, Data Management and Analysis, Linear Algebra, Causal Inference, Probability and Statistics, Fundamentals of Machine Learning, Responsible Data Science, Natural Language Processing, Processing Big Data for Analytics Applications, Web Design

Singapore American School (High School)

August 2016-May 2020

Awards: Booster Booth Scholar (2020), Computer Science Honor Society (2018-2020), National Honor Society (2018-2020), Honor Roll (2016-2020)

Work Experience

Business Intelligence Intern, Brooklyn Sports & Entertainment Global, New York

October 2023-Present

- Developing data-driven insights to improve CRM strategies, marketing campaigns, and partnership opportunities for events and games at the Barclays Center
- Collaborating with various departments to gather and analyze data related to customer demographics, segmentation and CRM metrics
- Using Python, SQL, Tableau, and Power BI to develop and implement data-driven initiatives to enhance overall fan experience and engagement

Tax Technology and Transformation Data Science Intern, Ernst & Young, New York

June 2023-August 2023

- Built machine learning models in Python (Natural Language Processing models) using various clients' data to aid with tax classification
- Developed Artificial Intelligence products using Generative AI to help clients perform routine tax practices

Student Tech Support, NYU Gallatin, New York

September 2022-Present

- Working with other full-time IT staff and student IT workers to provide technical support to Gallatin faculty and students
- Resolving IT work requests related to hardware, software, and programming

Grader, NYU Computer Science Department, New York

September 2022-Present

- Grading assignments for a section of the Intro to Computer Programming (Python) and a section of Intro to Computer Science (Java)
- Assisted professor in providing timely help and feedback for up to 50 undergraduate students studying Computer Science

Software Test Engineer Intern, TikTok/ByteDance, Singapore

May 2022-August 2022

- Worked on quality assurance for ByteHouse, a unified data platform for big data analytics that's used by enterprises
- Performed manual and automated testing (using PyTest) on ByteHouse's public RESTful APIs
- Understood environment and requirements, prepared test data, and designed and executed 150+ test cases across six APIs
- Collaborated closely with product managers and development teams to deploy production platforms

Software Quality Assurance Intern, LeadIQ, Singapore

May 2021-August 2021

- Conducted manual (black-box, unit, integration) and automated testing (Selenium Java) on user interface of company's main products
- Collaborated with Software Quality Assurance team to improve internal and automated processes

Projects

Music Genre Classification with Spotify Data

Spring 2023

- Used Python to classify music genres of songs using various machine learning models such as Random Forest, SVM, and Neural Network
- Achieved a model accuracy of 36.620% and a micro-average AUC of 0.84776

Matchmaker Project

Spring 2020

- Created a matchmaker algorithm in Java based on OKCupid's matchmaking algorithm
- Had 90+ peers fill out a questionnaire with 30 questions, returning top 5 matches based on geometric mean, arithmetic mean, and similarity

Extra-Curricular Activities

Insight Team Member, Stern Business Analytics Club

2023-Present

- Developed technical and problem-solving skills by building a tangible project alongside peers and professional mentors
- Built a project that examines taxi data in New York City and determines how taxi price is influenced by various factors

Co-Director of Events, NYU Center for Data Science Diversity Affinity Group

2022-Present

- Planning initiatives that allow Data Science students from underrepresented backgrounds to come together and express themselves
- Leading organization of monthly events with a specific emphasis on diversity to build a stronger community within the Center for Data Science

Campus Ambassador, The Women's Network: NYU

2022-2023

- Planned, executed, and promoted TWN events that aim to promote wellness, equity, and increased opportunities for women

Co-President, Singapore Students Association at NYU

2021-Present

- Leading organization of monthly Singapore-themed events (with attendance of 120+ students) to celebrate and share Singapore culture at NYU
- Managing manpower distribution of executive board
- Facilitating Singaporean students' transitions to life at NYU and New York City
- Liaising with Singapore Global Network to aid with growing Singapore's overseas network

Skills

Programming

Python, Java, R, JavaScript, HTML, CSS, C, Assembly, Scala

Technologies

Final Cut Pro, Adobe Premiere Pro, Selenium Java, PyTest, MailChimp, Jira, ServiceLink, Postman, Swagger, Power BI, Tableau, Salesforce, PostgreSQL, MongoDB, Hive, Presto, HBase

Languages

English (fluent), Chinese (Intermediate), Spanish (Intermediate)

Interests

Dance (Hip-Hop, Contemporary), Video Editing, Rhythm Cycling, Boxing, Baking, Singing, Guitar, Piano