Jack Arteaga

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EDUCATION

RUTGERS UNIVERSITY – NEW BRUNSWICK **New Brunswick, NJ**
Bachelor of Computer Science *September 2022 – Expected graduation, May 2024*

BROOKDALE COMMUNITY COLLEGE **Lincroft, NJ**
Associate of Computer Science *September 2020 – May 2022*

WORK EXPERIENCE

Bank of America **New York, NY**
Software Engineer Intern *June 2023 – August 2023*

- Developed a platform to solve a critical financial challenge using cutting-edge technologies, including Angular, Highcharts, and GoldenLayout
- Collaborated closely with financial team to gather and refine project requirements
- Attended weekly cadence meetings, tracked progress, and addressed project challenges
- Successfully implemented a new tech stack to enhance the efficiency and performance of the platform
- Demonstrated strong communication and presentation skills by delivering a comprehensive platform demo to upper leadership, effectively conveying the project's value and benefits

RESEARCH EXPERIENCE

Carnegie Mellon University **Pittsburgh, PA**
Undergraduate Research Intern *May 2022 – August 2022*

- Developed testing methods for pedestrian detection machine learning models and datasets
- Parsed over 10,000 images across 3 different datasets using Python
- Implemented tests investigating the generalizability of models and datasets for Advanced Driver Assistant Systems (ADAS) using Python, OpenCV, PyTorch and Google Colab
- Worked with a team of PhD students, software engineers and data scientists led by Dr. Christian Kästner
- Attended daily standup and weekly meetings to review progress and set concrete goals for the day
- Presented research findings as well as next steps through a poster exhibition

NASA – New Jersey Space Grant Consortium **Lincroft, NJ**
NASA Fellow *October 2021 – May 2022*

- Composed a proposal for a research project in STEM to be conducted over 7 months
- Analyzed the usage of computer vision and live object detection in self driving vehicles
- Developed an object avoidance system using Python and OpenCV
- Worked alongside Senior Software Engineer at Bell Labs, Dr. Christopher Ochs, to develop project
- Presented research findings for the New Jersey Space Grant Consortium

PROJECTS

TradeForTrade **Brookdale Community College**
Collectables Trading Website *Spring 2022*

- Conceptualized system outline and webpage layout to follow throughout the course of the project
- Using SQL and MySQL Workbench, designed a database to store elements from user's accounts
- Developed front-end using HTML, CSS, JavaScript, and jQuery
- Integrated front and back-end using Node.js
- Used Git and GitHub for the versioning of the project
- Deployed site allowing using to create an account, upload items to trade and complete transactions

SKILLS

- Programming Languages: Java, Python, C, JavaScript, HTML, CSS, SQL
- Libraries: OpenCV, Node.js, NumPy, TensorFlow, Matplotlib, PyTorch, Highcharts, GoldenLayout
- Tools, Platforms & Frameworks: Git, GitHub, Linux, Unix, Vim, Visual Studio Code, jQuery, MySQL Workbench, Toad, Jupyter Notebook, Google Colab, Microsoft Office, Angular
- Bilingual: Spanish (Fluent), English (Fluent)