Jennifer Lopez

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EDUCATION

Arizona State University — Tempe, AZ
Master of Science in Robotics and Autonomous System (Artificial Intelligence) — *2021 - 2023*

Brown University — Providence, RI
Bachelor of Science in Computer Engineering — *2016 - 2020*

EXPERIENCE

Inspirit AI — (Remote) Tempe, AZ
Instructor Coordinator and Instructor — *June 2021 -*

- Communicated with the lead team to ensure program launches ran smoothly and instructors upheld expectations.
- Created a database for instructors in the network and consolidated student, instructor, and program manager feedback to measure and track instructor strengths and best match instructors for programs and partnerships.
- Developed hiring plans based on enrollments, projections, and needs.
- Taught courses aimed at teaching middle schoolers about AI and machine learning. Groups ranged from 5-7 students joining remotely to leading school classroom classes of up to 20 students. Introduced topics such as decision trees, convolutional neural networks (CNNs), and computer vision using Python on Colab notebooks. Mentored students through a final project where they can demonstrate their new skills by developing movie recommendation or face mask detection systems.

Wise Systems — (Remote) Tempe, AZ
Software Engineer — *May 2022 - June 2023*

- Designed and developed a serverless architecture using AWS services including Lambda, DynamoDB, and S3 to track the performance of a new auto-arrive feature.
- Processed JSON data by comparing manual and and the new automated status updates. Developed a Python script to compare these performances and help identify issues such as having overlapping points of arrival for different customers and proposing algorithmic parameters that can be tuned to address these issues.
- Implemented integration tests for auto-arrive feature in Python.
- Resolved backend and frontend bugs and developed new features using Node.js and TypeScript.

Bank of America — New York City, NY
Software Engineer — *June 2019 - August 2019*

- Implemented a queue monitoring web app for the cloud team's internal request queue using Java and MongoDB.
- Automated email alerts to be sent when queue reaches a high load or the load has become stagnant.
- Wrote unit and integration tests for the feature and deployed feature to the production environment.

ASU Research Experiences for Undergradutes (REU) — Tempe, AZ
Researcher — *May 2018 - August 2018*

- Worked with the SenSIP REU site to apply machine learning techniques and developed a CNN model using Caffe and AlexNet to achieve an image recognition task.
- Presented research to fellow researchers and professors.

PROJECTS

- **Gesture Recognition** — *Spring 2022*
  - Implemented gesture recognition using AlexNet, ResNet50, and MobileNet as the CNN architecture models and analyzed their performance based on training and testing accuracy, training time, and overall model complexity.
- **Chameleon App** — *Spring 2020*
  - Developed a child-friendly health monitoring app, Chameleon, using Swift and Firebase. The app allowed users to create an user profile, receive heart rate circuit readings, and store health data.

TECHNICAL SKILLS

- **Programming Languages**: Python, Java, JavaScript, Node.js, TypeScript, Matlab, Swift, HTML, CSS
- **Technologies**: AWS (Lambda, DynamoDB, S3, Kinesis Streams, Cloudwatch, SAM), MongoDB, Keras, PyTorch
- **Development Platform**: GitLab, GitHub, BitBucket