

ERIC SONG

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EDUCATION

New York University

B.A. in Computer Science (College of Arts & Sciences); B.S. in Business (Leonard N. Stern School of Business)

New York, NY

Expected May 2023

- **Major GPA:** 4.00/4.00 | **Overall GPA:** 3.90/4.00
- **Awards and Achievements:** Deloitte Undergrad Case Competition (2nd Place); FTI NYU Case Competition (3rd Place)
- **Coursework:** Linear Algebra, Discrete Math, Data Structures, Computer Programming, Regression/Forecasting Models, Basic Algorithms, Computer Systems Organization

PROFESSIONAL EXPERIENCE

Amazon

Seattle, WA

Software Development Engineer Intern

June 2021-Aug 2021

- Built a dashboard using **React** that allows teams to onboard retail page widgets for viewing product recommendation metrics. Designed a **DynamoDB** database for efficiently storing and querying onboarded widget records
- Implemented an **automated data pipeline** using **AWS EventBridge, Step Functions, Lambda** and **Glue** to generate metrics from datasets. Designed a workflow with logarithmic runtime which saved **~50\$ in AWS costs** per onboarding
- Optimized and debugged **PySpark** queries to transform data efficiently and reliably within datasets up to multiple TBs
- Implemented error handling that cuts a trouble ticket to the team if any data pipeline steps fail. Created an on-call runbook that documents the debugging process and solutions to potential errors

Fashom

Miami, FL

QA Intern

May 2020-Aug 2020

- Developed test cases for mobile and web platforms that identified **113 bugs** over the lifetime of the internship. Utilized SQL queries and backend records to track the source of those bugs, and reported them on **Jira**
- Built a custom Shopify invoice template using **HTML/CSS** for the strategy team. It is currently being used in an A/B test for increasing customer purchase rates
- Managed an initiative to develop internal inventory tracking software which **saved 1 hour of operations effort** each day
- Wrote a software requirements document that communicated operation's needs to the developer. Compiled comprehensive documentation which included an implementation plan, software details and a debugging guide

PROJECTS

NFL Rushing Yards ML Model

Sep 2020 – Jan 2021

- Developed a **random forest model** to predict the cumulative probability of an NFL rusher gaining a specific number of yards. Achieved a **continuous ranked probability score of 0.0132** (0.0022 off from the top Kaggle leaderboard score)
- Performed data modeling, processing and feature engineering to improve prediction accuracy
- Deployed model as a **REST API** in a **Docker** container on AWS EC2 instance

Group Workout Web Application

Jul 2020 – Sep 2020

- Created a video call web application for scheduling and facilitating virtual workouts among friends
- Utilized **Twilio** programmable video API, **Flask** back-end, **HTML/CSS/JavaScript** front-end and **SQLite3** database

EXTRACURRICULAR ACTIVITIES

Strategic Venture Society

New York, NY

Venture Team Analyst

Feb 2020 – Present

- Compiled a Smart Grid industry report using Figma; completed assignments in finance, data analysis and venture capital
- Presented a growth-stage startup pitch deck; Included valuation projections, sensitivity analyses and an investment thesis

Data Fellowship

Nov 2019 – Dec 2019

- Analyzed a dataset of 6.5 million records from NYC Open Data; delivered a presentation on crime around NYU to peers
- Performed random forests modeling and feature importance extraction to understand US traffic accident data
- Constructed visualizations in Jupyter Notebook/Python which included SHAP plots, time series charts and scatter plots

SKILLS AND INTERESTS

Skills: Python, Java, JavaScript, TypeScript, HTML/CSS, AWS (Lambda, DynamoDB, Step Functions, Glue, Cloud Development Kit, API Gateway, S3, IAM, EventBridge), PySpark, React, Google Cloud Platform, Flask, Figma, Scikit-Learn, Microsoft Office

Interests: Venture Capital, Videogame development (Unity), Football, Wrestling, Card tricks, Fantasy and Sci-Fi books, *Harry Potter*