Eric Elizes

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EDUCATION

Case Western Reserve University — **Cleveland, OH**
Data Science, B.S. and Economics, B.A. (GPA: 3.72/4.00) — *Expected May 2024*

- Machine Learning, Artificial Intelligence, Software Engineering, Computer Security, Data Mining, Databases, Algorithms, Data Analysis, Big Data Indexes, HPC Clusters, Advanced Statistics, Probability

EXPERIENCE

Supercharger — **New York City, NY**
Machine Learning Analyst — *October 2023 – Present*

- Built ML pipelines using *Python* to forecast financials of startups at high accuracy for loan approval system
- Employed NLP techniques such as TF-IDF vectorization to classify corporate loan applicants by industry using *SciKit-Learn*; researched algorithms applied by competitors

Capital One — **New York City, NY**
Software Engineering Intern — *June 2023 – August 2023*

- Developed a public backend-for-frontend API in *Java, AWS Lambda,* and *Spring Boot* to dynamically serve product details across platforms for account opening sequence, visited by 300,000+ new customers monthly
- Created comprehensive, automated test suites using *JUnit* and *Mockito* to assure functionality of API
- Personally scoped needs from frontend engineers to identify requirements; pitched to 50+ engineers

PricewaterhouseCoopers — **New York City, NY**
Consulting Solutions Intern — *June 2022 – August 2022*

- Researched and pitched solutions to increase user retention by 40%; applied *Python* to analyze user data
- Designed 5 dashboards in *PowerBI* to visualize supply/demand trends for social media website client

PROJECTS

Voteable — *October 2022 – Present*

- Led Agile team of 4, launched app for *iOS/Android* revolutionizing how voters stay updated on their ballot
- Developed *React Native* mobile app with *Express.js* login, notifications, and news pulled from *PostgreSQL*
- Built news scraper using *TypeScript* and *Node.js* hosted on *AWS EC2* server, updating *PostgreSQL* databases with articles at scheduled cron job frequencies; created effective unit tests with *Jest*

Facial Recognition Algorithm — *Spring 2023*

- Created facial recognition and detection algorithms, using *Neural Networks*, and *SVM* from *Tensorflow* and *PyTorch* at 82% accuracy
- Applied *parallel programming* to efficiently train data using *Numba JIT* and *Linux Shell* on an *HPC Cluster*

SKILLS

Data Science: Maching Learning, Natural Language Processing, Clustering, Web Scraping, Python (NumPy, Pandas, SciKit-Learn, Tensorflow, Scrapy, Seaborn, Matplotlib), R (Tidyverse, Markdown, ggplot2), Linux Shell

Software: Frontend, Backend, REST APIs, Testing, CI/CD, TypeScript, JavaScript (React Native, React.js, Nodes.js, Express.js, Firebase), Java (Swing, Spring Boot, JUnit, Mockito), SQL (PostgreSQL, JDBC), AWS

ACTIVITIES

- Subcommittee Chair in Student Government, previously Treasurer Executive
- Club rugby player for university
- Piano, synthesizer, viola, violin, and ukelele for musicals, composition, and practice
- Cooking enthusiast

See full resume on LinkedIn