

JEREMY CALCARIAN

Philadelphia, PA

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EDUCATION

University of Pennsylvania

Expected: May 2025

The Wharton School | BS. Economics | Major: Finance, Statistics

The School of Engineering and Applied Science | Minor: Data Science, Computer Science (Intention: MSE in Data Science)

Relevant Coursework: Discrete Mathematics, Combinatorics, Linear Algebra, Big Data Analytics, Probability, Data

Structures, Algorithms, Game Theory, Investment Management, Computer Systems, Corporate Finance, Monetary Economics

Honors & Awards: UN Service Award, Kroger Award, Capital One National Case Competition Semi-Finalist

PROFESSIONAL EXPERIENCE

PASSIO Lab

Research Software Engineer

Jun 2024 – Present

Hagerstown, MD

· Selected to research with Dr. Phat K. Huynh, to develop the advanced machine learning capabilities of Niura's EEG earbuds

Niura

Product Management

Nov 2023 – Present

Philadelphia, PA

· Conducted machine learning research on EEG signals for live stress monitoring brain analytics software

· Produced product strategy, market research, and designed consumer research analytics tools for an EEG product

· Strategizing fundraising, and created detailed frameworks for product development

GoAhead Ventures

Venture Scout

Oct 2022 – Present

Philadelphia, PA

· Sourced seed and pre-seed deals through conducting interviews of 50+ founders globally to analyze future fund management, vertical integration solutions, and generated software evaluations.

· Reviewed over 200 startup pitches, contributing to company pitch data and strategic decisions on a weekly review panel

Apple, Beats by Dr Dre

Business Analytics

Jul 2022 – Sept 2022

Hagerstown, MD

· Advised and discussed current Beats by Dre marketing objectives with consumer insights division lead, and developed

three new consumer-based marketing strategies tailored by regression consumer analysis and additional qualitative research

· Conducted customer research to contribute to the global segment research of Beats's 2022 headphone model

LEADERSHIP EXPERIENCE

EMPOWERR

Founder

Oct 2019 – Present

Hagerstown, MD

· Managed a nonprofit organization, four management teams (60+ members), raised over \$50K+ and 20K+ items for local homeless, food insecurity challenges. Engaged 30+ schools, a Fortune 500, and 9 non-profits

Consult For America

Data Consultant

Jan 2022 – Jan 2024

Philadelphia, PA

· Drove data-driven insights and product analysis by analyzing the POS database (\$1M+ transactions) that led to an international food company's first consumer-based segmentation, and development of local partnership strategies

· Identified HTML errors, and increased expected yearly revenue by \$112K through an optimizing machine-learning menu model

PROJECTS

Local Lens

· Started the iteration of a transformative startup platform for creators and buyers, via a matchmaking model

Jun 2023 – Apr 2024

Evolutionary Game Theory in Algorithmic Trading – (Python, Pandas, YFinance)

· Evaluated trading strategies from using evolutionary game theory parameters within a simulated market environment

Dec 2023 – Jan 2024

Credit Card Fraud Detection – (Python, Pandas, Seaborn)

· Created a machine learning model to pinpoint credit card fraud, analyzing 1 million transactions with logistic regression, decision trees, and SVMs, focusing on key features like transaction distance and purchase ratios (F1 Score of 0.99)

Nov 2023 – Dec 2023

Diabetic Retinopathy Classifier – (Python, Keras, TensorFlow)

· Created a classifier using CNN transfer learning for the classification of retinal fundus images to detect diabetic retinopathy (0.92 AUROC), and identified critical regions through Grad-CAM heatmaps

Apr 2023 – May 2023

TECHNICAL SKILLS AND INTERESTS

Proficient: Java, Python, SQL, Pandas, TensorFlow, Scikit-learn, Jupyter, Excel

Familiar: HTML, CSS, OCaml, PyTorch, Keras, Spark, NumPy | **Learning:** React Native, C, JavaScript, TypeScript, Manim

Skills: Data Visualization, Team Engagement, Financial Analysis, Data Management, Communication, Product Development

Interests: Machine Learning, iOS Software, Videography, Entrepreneurship, Poverty Alleviation, Soccer, Poker