



# ANSH NAGWEKAR

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## Education

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**University of Pennsylvania, Philadelphia, PA**

**August 2021 - May 2025**

*Candidate for B.S.E. in Computer Science (NETS Program), Minor in Statistics*

**GPA: 3.98**

**Relevant Coursework:** Data Structures and Algorithms (TA), Network Theory (TA), Scalable and Cloud Computing, Optimization Theory, Foundations of Data Science (TA), Advanced Algorithms, Machine Learning Theory (G), Ethical Algorithms (G), Applied Probability Models in Marketing (G). \*G = Graduate Level, \*TA = Teaching Assistant

**Activities & Societies:** Delta Sigma Pi Professional Fraternity, Penn Social Entrepreneurship Movement, Susquehanna International Group (SIG) Technology Discovery Day Fellow 2023, Penn Quant Trading Group (Development Team)

## Professional Experience

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**Tesla, Fremont, CA**

**May 2023 - Present**

*Software Engineering Intern*

- Incoming Software Engineering Intern in the IT Applications Engineering Team

**Penn Labs, Philadelphia, PA**

**February 2022 – Present**

*Software Engineer (Backend)*

- Tech Stack: Python Django, Docker, PostgreSQL.
- Engineer RESTful APIs to optimize query performance for software products used by 12,000+ Penn students.
- Co-manage 20,000+ LoC codebase and interface with front-end engineers to handle exceptions and create resilient endpoints. Service the production pipeline in order to ensure continuous integration and deployment.
- Implemented schedule-sharing feature on Penn Course Plan which involved significant backend design changes.

**VO2 Fans, Philadelphia, PA**

**May 2022 – December 2022**

*Founding Software Engineer*

- Tech Stack: MongoDB, Express.js, React.js, AWS, ThirdWeb SDK, Moralis SDK.
- VO2 uses web3 technology to improve sports fan engagement by enabling fans to become stakeholders in their favorite athletes (raised \$350K in pre-seed round, fielded seed round offers at \$10M valuation).
- Built and maintained backend stack and solve software issues relating to securing APIs, handling crypto transactions, and reward mechanisms for main website (100+ active users, 5000+ monthly visits).
- Attended the 2022 Techstars Sports Accelerator and learned about the fundamentals of entrepreneurship, scaling a pre-seed startup, and pitching to venture capital firms and investors while networking with Techstars alumni.

**Open Core Ventures, San Francisco, CA**

**July 2022 – December 2022**

*Venture Capital Research Analyst Intern*

- Perform due diligence on 50+ open-source software projects by conducting a technical analysis of the codebase, researching business models of commercial competitors, and aggregating contribution analytics.
- Work alongside firm partners (including Sid Sijbrandij, CEO of GitLab) to inform investment decisions of \$2M.

## Projects and Extracurricular Experience

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**Wharton Venture Initiation Program Fellowship**

**October 2021 - January 2022**

- Built software for Sentinel Cloud, a healthcare startup aiming to address a \$64M TAM in EMR (Electronic Medical Records) systems by optimizing the physician workflow and introducing web-based record systems.
- Created algorithms (Python, SQL, Google Cloud Platform) to categorize doctor notes and built APIs to extract useful insights on patients (e.g., past illness, family history) to help physicians make recommendations.

**Natural Language Processing Research for Newristics LLC**

**June 2020 – July 2021**

- Researched NLP solutions for various internal projects for a behavioral economics-based marketing firm.
- Leveraged ML techniques such as regression, deep learning, and ensemble learning to identify 40+ cognitive heuristics in marketing messages. Achieved accuracy of 85%+ over all models (currently used in production).
- Compiled comprehensive research report on applying style transfer and NLG to help company determine the necessary software to automate message optimization product to address a potential \$10M market opportunity.

## Skills and Interests

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**Languages:** Java, Python (Flask, pandas, scikit-learn, tensorflow, Django), JavaScript (Express, Node, React), SQL

**Research Interests:** Artificial Intelligence, Natural Language Processing, Network Theory, Blockchain Development

**Hobbies:** Tricking (Flips), Educational Outreach, Fusion Dance, San Francisco 49ers, Chocolate Milk, Game Theory