Michael Pignatelli

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EDUCATION

University of Pennsylvania, School of Engineering and Applied Science, Philadelphia, PA

May 2027

Candidate for Bachelor of Science in Engineering

Major: Computer Science

Concentration: Computer Vision/AI

GPA: 3.66/4.00

Relevant Coursework: Tiny ML for Embedded Systems, Algorithms/Data Structures, Probability (Wharton),
Automata/Computability/Complexity, Computer Systems, Engineering Electromagnetics
Associations: Penn Data Science Group (Wharton), ML Research at Penn, Computer Science Society, Penn Aerospace Club

EXPERIENCE

Penn Dept. of Computer and Information Science | CIS 1100 Teaching Assistant, Philadelphia, PA

Aug. 2024 – Present

- Lead recitation class; host and support students at office hours for intro CS course (Python/Java); ~300 students
- Collaborate on development of course infrastructure (committee); grade assignments and exams
- Contribute to staff meetings; swiftly and accurately answer student questions on course discussion board (committee)

Hewlett-Woodmere Public Schools | Auditorium Technician (Contract), Hewlett, NY

June 2022 – Present

- Precisely control lights, sound, and video streaming in support live concerts and school events
- Cohesively film and live-stream events via IBM Ustream integration, consistently reaching over 200 viewers

Outlier AI | AI Prompt Engineer (Contract), Remote

May 2024 – Aug. 2024

- Trained AI models to become more accurate, relevant, and safe in math and programming (Python/Java)
- Formed, revised, and evaluated LLM prompts and responses for model training purposes
- Reviewed coworker prompts and revisions for completeness, ensuring training and validation data are processable

EXTRACURRICULARS

Penn High Powered Rocketry | Active Recovery/Avionics Engineer, Philadelphia, PA

Sept. 2023 – Present

- Implement dual parachute deployment system (primary/drogue) for annual L3 team rocket
- Model and simulate rocket/metrics to be within 5% of real-world result using OnShape and OpenRocket
- Contribute to successful and safe recovery of team rocket using geolocation technology
- Design and integrate dual camera system, live telemetry telecom system for annual launch at Spaceport America
- Successfully launched to over 12000ft at Spaceport America Cup, New Mexico, June 2024

Penn Habitat for Humanity | Volunteer Division, Philadelphia, PA

Sept. 2023 – Present

Raised several thousand dollars for Philadelphia Habitat for Humanity through the annual Rake-A-Thon event

Hewlett Robotics | Vice President (22-23); Team 5477 Innovo Co-Captain (21-23), Hewlett, NY

Sept. 2017 – June 2023

- Led team to Regional Championship Event in 2023, Finalist Team, Control Award, 3rd Place Design Award (2023)
- Supervised regular meetings (task management/safety guidelines) and compiled meeting/inventory records
- Contributed to various technical systems (electrical, software, mechanism, intake/outtake, drivetrain); trained new recruits on efficient and effective design/assembly of systems

PUBLICATIONS

E. Cohen-Kashi, A. Khaytman, E. Kim, **M. Pignatelli**, B. Gulotta, and J. Van Wie, (2023) "Competing in the Global Semiconductor Industry: Let the Chips Fall Where They May", *Journal of Future Economists*, 2, 66-75.

SKILLS

Technical: Object Oriented Programming, Functional Programming, ML Model Development, TensorFlow, TensorFlow Lite, Jupyter Notebook, Git, Research, LaTeX, Mathematica, Office 365/Excel, Google Suite, IBM SPSS, Fusion 360, SketchUp, OpenRocket, SOLIDWORKS, OnShape, DraftSight, Creative Thinking, Technical Drawing, Computer Building/Repair **Languages**: *Proficient*: Java, Python, OCaml *Familiar with*: C, Swift *Non-programming*: Italian (advanced) **Interests**: Machine Learning/AI, Data Science, Linguistics, Electric/Sustainable Transportation, Aerospace, Financial Tech