

Chinmay Govind

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EDUCATION

- University of Pennsylvania, School of Engineering and Applied Sciences** Aug. 2024 – May 2028
B.S.E in Artificial Intelligence & Computer Engineering — GPA: 4.0 Philadelphia, PA
- Relevant Coursework: AI Lab, Computer Architecture, Linear Algebra, Calculus III, Discrete Math, Data Structures & Algorithms, Signal Processing
 - Honors: 2nd in Penn Class of 1920 Math Contest, Penn Undergraduate Research Mentoring Award, Wharton WUDAC Datathon 1st Prize
- Cumberland Valley High School** Aug. 2020 – June 2024
GPA: 4.0 — SAT: 1600 Mechanicsburg, PA
- Relevant Coursework: Multivariable Calculus, Independent Cybersecurity Study, Digital Electronics
 - Honors: National Merit Finalist, William R. Pierce CS Award, PA TSA Cybersecurity 1st Place

EXPERIENCE

- Penn Whales Research Group** May 2025 – Present
Machine Learning Researcher Philadelphia, PA
- Conducting deep learning research using PyTorch and CNNs to classify whale calls from large acoustic datasets.
 - Cut down whale localization times from days to seconds by replacing traditional signal processing techniques with deep learning models.
- Penn Electric Racing (Formula SAE)** Sept. 2024 – Present
Electrical Software Developer Philadelphia, PA
- Developed embedded firmware in C++/Rust for electric racecar. Created live analytics data-server, cutting down time taken to collect data from the car from minutes to milliseconds.
- Penn CS Department Course Staff** Dec. 2024 – Present
Teaching Assistant - CIS 1600 (Discrete Math) Philadelphia, PA
- Led weekly guided sessions for students in combinatorics, probability, logic, and graph theory.
 - Developed custom question software to dynamically generate questions from templates, used by 100+ students.
- Science Olympiad** Aug. 2019 – Present
President, Developer, Organizer Mechanicsburg & Philadelphia, PA
- Led a 100+ member team, won 125 medals, and organized 3 large-scale tournaments.
 - Built web-based practice tools for Astronomy and Codebusters events, leading to first prizes in state tournaments.

PROJECTS

- Vehicle Telemetry Server** | Rust, Python, Embedded C++, WebSockets Dec. 2024
– Built cloud-enabled server for real-time telemetry and metadata querying.
- QuickCal Chrome Add-On** | JavaScript, Web3, Gemini API Dec. 2024
– Built Chrome extension using LLMs to parse and add calendar events.
- AstroGPT** | Python, Flask, OpenCV, Selenium Feb. 2024 – Apr. 2024
– Built tool to catalog 5,000+ astronomy images for Science Olympiad.
- Robot Odometry Software** | C++, Arduino Dec. 2023 – Apr. 2024
– Won PA 2nd prize by designing robot localization system.
- Robot Vision System (FTC)** | Java, OpenCV, TensorFlow Dec. 2021 – Apr. 2022
– Designed robot vision for obstacle detection; won PA Software Control Award.

TECHNICAL SKILLS

Languages: Java, Python, JS, C, C++, Rust, PHP, SQL, .NET, L^AT_EX, MATLAB, Assembly, OCaml, Bash, PowerShell
Frameworks/Tools: Git, Github, Docker, Kubernetes, Node.js, MongoDB, PostgreSQL, Spring Boot, Flask, Django, Apache, React, Selenium, Postman, GDB, Ghidra, Arduino, Jupyter Notebook
Libraries/Platforms: PyTorch, NumPy, Scikit-Learn, CUDA, OpenCV, TensorFlow, AWS Lambda, GCP Vertex AI
Interests: Algorithms, Machine Learning, Cryptography, Cybersecurity, NLP, Computer Vision
Certifications: Google Cloud Machine Learning Engineer Path, IBM Web Dev, Google IT Support, AP French