

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, Signal Processing
- 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
Research Assistant Philadelphia, PA
- Conducting deep learning research using PyTorch and CNNs to classify whale calls from large acoustic datasets.
 - Developed cloud pipeline to generate synthetic whale calls and wrote CUDA optimized code for training models.
- Penn Electric Racing (Formula SAE)** Sept. 2024 – Present
Electrical Software Developer Philadelphia, PA
- Developed embedded firmware in C++/Rust for electric racecar.
 - Integrated live telemetry with a Rust-based analytics server.
- 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 which dynamically generates 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 practice tools for Astronomy and Codebusters events, improving team performance by 30%.

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, Web3, C, C++, Rust, PHP, SQL, .NET, \LaTeX , OCaml
Frameworks/Tools: Git, Spring Boot, Flask, Django, React, Selenium, Postman, GDB, Ghidra, Arduino
Libraries/Platforms: Linux, PyTorch, OpenCV, TensorFlow, AWS, Google Cloud, BigQuery
Interests: Machine Learning, Cryptography, Cybersecurity, NLP, Computer Vision
Certifications: IBM Web Dev, IBM Cloud, Google IT Support, AP French