

Chinmay Govind

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EDUCATION

University of Pennsylvania, School of Engineering and Applied Sciences <i>B.S.E in Artificial Intelligence & Computer Engineering — GPA: 4.0</i> – 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	Aug. 2024 – May 2028 Philadelphia, PA
Cumberland Valley High School <i>GPA: 4.0 — SAT: 1600</i>	Aug. 2020 – June 2024 Mechanicsburg, PA

EXPERIENCE

Penn Whales Research Group <i>Machine Learning Researcher</i> – Developed CNN models in PyTorch to classify whale calls from 50GB+ acoustic datasets with sub-second accuracy. – Reduced whale localization times from days to seconds by replacing traditional signal processing techniques with deep learning models.	May 2025 – Present Philadelphia, PA
Penn Electric Racing (Formula SAE) <i>Electrical Software Developer</i> – 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.	Sept. 2024 – Present Philadelphia, PA
Penn CS Department Course Staff <i>Teaching Assistant - CIS 1600 (Discrete Math)</i> – 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.	Dec. 2024 – Present Philadelphia, PA
Science Olympiad <i>President, Developer, Organizer</i> – 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.	Aug. 2019 – Present Mechanicsburg & Philadelphia, PA

PROJECTS

Vehicle Telemetry Server <i>Docker, Rust, Python, Embedded C++, WebSockets</i> – Built cloud-enabled server for real-time telemetry from electric racecar, processing 200+ sensors at 1kHz. Containerized the server architecture for concurrent development within our 10 member software team.	Dec. 2024
QuickCal Chrome Add-On <i>JavaScript, Web3, AWS Lambda, Gemini API</i> – Built Chrome extension using Google Gemini to parse text and add calendar events. Redesigned the backend in AWS Lambda to reduce setup time from 2 minutes to instant access.	Dec. 2024
AstroGPT <i>Python, Flask, OpenCV, Selenium</i> – Built tool to catalog 5,000+ astronomy images for Science Olympiad.	Feb. 2024 – Apr. 2024
Robot Odometry Software <i>C++, Arduino</i> – Designed precision robot localization system achieving 2cm positional accuracy over 10+ meter courses, securing 2nd place at PA State Championship among 50+ competing teams through advanced sensor fusion algorithms.	Dec. 2023 – Apr. 2024
Robot Vision System (FTC) <i>Java, OpenCV, TensorFlow</i> – Implemented real-time computer vision system detecting 3 object types with 90% accuracy at 30fps, enabling autonomous navigation and earning PA Software Control Award among 100+ teams statewide.	Dec. 2021 – Apr. 2022

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, C, C++, Rust, PHP, TypeScript, Go, SQL, .NET, LaTeX, OCaml, C#, Bash
Frameworks/Tools: Git, Github, Docker, Kubernetes, Node.js, MongoDB, PostgreSQL, Spring Boot, Flask, Django, Apache, React, Selenium, Postman, GDB, Ghidra, Arduino, Jupyter Notebook, Linux, UNIX, PowerShell
Libraries/Platforms: PyTorch, NumPy, Scikit-Learn, MATLAB, 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