Pradyun Bachu

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EDUCATION

University of Wisconsin - Madison — Madison, WI

Bachelor of Science in Computer Science, Economics with Mathematics Emphasis — *May 2027*

- **Relevant Coursework:** *Data Structures and Algorithms, Discrete Mathematics, Linear Algebra, Probability and Statistics, Intermediate Micro/Macroeconomics, Calculus III, Computer Engineering*
- **Clubs and Activities:** *Wisconsin Autonomous, Federal Reserve Challenge Club, Indian Student Association, Project Management Club*

The Peddie School — Hightstown, NJ

High School Diploma — *May 2024*

- **Relevant Coursework:** *AP Computer Science A, AP Calculus AB/BC, AP Physics 1/C, Engineering & Design*
- **Clubs and Activities:** *Peddie Robotics, PeddieHacks, Peddie CS Club, Peddie Young Entrepreneurs Club, Peddie Boys Soccer*

EXPERIENCE

Data Analyst Intern — May 2025 – August 2025

United Nations: DESA — *New York, NY*

- Provided 9+ reports under Rashmi Banga and Lana Basneen Zaman, focused on issues of climate finance and socio-economic implications of artificial intelligence in developing countries
- Analyzed the UN General Assembly Report (A/78/224) and UN climate finance data for MICs
- Cleaned and manipulated 3+ global NDC data sets using Python, SQL, NumPy, Pandas, and Excel
- Created a dashboard with data sets to visualize 10+ metrics using Streamlit to predict NDC completion rate

Event Day Judge, Logistics Team Lead — September 2020 – August 2025

PeddieHacks — *Hightstown, NJ*

- Co-led a team of 35+ Peddie students for PeddieHacks, a 48-hour online hackathon hosted by the Peddie School
- In charge of connecting with 12+ judges, 3+ workshop speakers, and 15+ sponsors annually
- 2024 - Present: Participated in the panel of judges for the event. Pre-screened and live-judged 30+ projects
- 2023: $183,678 in prizes, 279 participants; 2022: $132,383 in prizes, 204 participants; 2021: $50,000 in prizes, 342 participants

Senior Engineer — September 2021 – May 2024

Peddie Robotics — *Hightstown, NJ*

- Used CAD and CAM software (Autodesk Inventor, Onshape, vCarve Pro) to design and machine an FRC robot
- Mentored underclassmen in both engineering/design and scouting match data
- FIRST World Championship Milstein Division Winner (2023), FIRST World Championship Hopper Division Finalist (2024), FIRST World Championship Roebling Division Quality Award (2022), 3x FIRST Mid-Atlantic Championship Winner, 6x FIRST Mid-Atlantic District Event Winner

PROJECTS

Redline | *Python, React, YOLOv8, Groq LLM, OpenCV* — November 2025 – Present

- Developed a full-stack web application using YOLOv8 computer vision to detect vehicle damage from images
- Implemented severity classification and cost estimation with detailed repair cost breakdowns
- Developed Flask REST API backend and React frontend with real-time damage visualization
- Integrated Groq LLM conversational agent for natural language customer support

SKILLS & INTERESTS

Technical Languages: Java, Python, L/CSS, R, JavaScript, HTML/CSS
Frameworks: React, Flask, JUnit
Developer Tools: Git, Google Suite, Microsoft Office, Tableau, Autodesk Inventor, vCarve Pro, Onshape, VS Code, Visual Studio, IntelliJ, Eclipse, Google Colab
Libraries: Pandas, NumPy, Matplotlib
Languages: English, Spanish, Telugu
Interests: Music, Fantasy Football, Poker, Walking, Gym