Resume — CS/AI/Quantum Computing Internship

Ishan Biyala
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Experienced in simulation development and game design.

Objective
Seeking a summer internship in computer science, artificial intelligence, or quantum computing to apply strong programming skills, physics background, and research experience to real-world problems.

Education
University of North Carolina at Chapel Hill, NC (Aug 2025 – Present)
• B.S. in Physics (Expected May 2029)
• Relevant Coursework: Honors Computational Physics (A+); Projects included a Mars lander simulation and solar system in Python, Computational Medicinal Chemistry (A); Projects included a full Pharmacokinetic and Pharmacodynamic Case Study on drugs used for Gastrointestinal Esophageal Reflux Disease in Mathematica; Honors Aerospace Engineering; Projects include rocketry simulations in OpenRocket.

Technical Skills
• Programming: C#, Python (Certified Associate Python Programmer), Java
• Frameworks & Tools: Unity, Git,
• Data Analysis: NumPy, Matplotlib
• Software: Visual Studio, VS Code, LaTeX

Projects & Experience

3D Combat Game (C# & Unity)
• Published a 2D platformer game on itch.io; implemented gameplay and optimized performance.

Volunteer Technician, Kramden Institute (July 2023 – July 2024) • 110+ hours building, testing and troubleshooting computers that are delivered to children in need.

Assistant Tournament Director, Triangle Chess Center (Nov 2022 – Present)
• Managed Swiss-system pairing and score reporting; certified USCF Club Director.

NCSSM SRIP (Jun 2024 – Aug 2024)
• Co-authored first-ever solution to AMM Problem #12449; manuscript under review for publication in the American Mathematical Monthly, expected 2025.

Volunteer Tutor, Chess Achieves (Sep 2019 – Present)
• Delivered 625+ hours of chess instruction.

Honors & Awards
• 1st Place, NC Science Olympiad State — Astronomy (2024)
• 2nd Place, NC State Chess Championship U1800 (2023)