

BINAYAK JHA

Lancaster, PA | (223) 281-4682 | binayak.j2027@gmail.com | linkedin.com/in/binayak-jha | github.com/BinayakJha | binayakjha.com.np

EDUCATION

Franklin & Marshall College

Lancaster, PA

Bachelor of Science in Computer Science — CGPA: 3.75/4.00

May 2027

- **Relevant Coursework:** Data Structures & Algorithms, Machine Learning, Linear Algebra, Probability & Statistics, Business.
- **Honors & Awards:** International Computer Science Olympiad (Honorable Mention), F&M Honors List, AWS All Builders Welcome Grant Recipient.
- **Activities & Fine Arts:** Honorary Recipient of the Adams & Gustafson Musical Achievement Award.

FINANCE & QUANTITATIVE EXPERIENCE

Wharton School (University of Pennsylvania) / Warburg Pincus LLC

Philadelphia, PA

Warburg Pincus Fellow | Wharton Academy

May 2025 – June 2025

- Selected as 1 of only 34 students nationwide for a highly competitive corporate finance and valuation program at the Wharton School, sponsored by Warburg Pincus.
- Completed 60+ hours of rigorous lectures and case studies covering valuation methodologies (DCF, LBO, comps), capital structure, corporate finance, private equity, and M&A.

Xuno

Kathmandu, Nepal

Machine Learning / AI Engineering Intern

February 2024 – August 2024

- Engineered high-accuracy predictive models (LSTM, GRU, ARIMA, ANN) using PyTorch, achieving 98% forecasting precision for USD-to-NPR currency exchange rate fluctuations to optimize strategic financial planning.
- Designed and optimized a scalable market analysis tool on AWS, streamlining data ingestion pipelines and improving data processing efficiency by 30%.
- Collaborated with cross-functional teams to build a competitive market calculator, improving decision-making speed by 20% and automating daily market reports.

OneQuantum

Kathmandu, Nepal

Quantum Computing Research Scholar

February 2021 – August 2022

- Conducted advanced research on quantum algorithms (Grover's and Shor's search/factoring algorithms), analyzing computational complexity and speedup benefits compared to classical algorithms.
- Co-authored a peer-reviewed research paper on cryptography applications of quantum computing, presenting findings on post-quantum secure cryptographic protocols.
- Collaborated in a 10-member team to build simulation environments for quantum circuits, resolving algorithmic errors and improving execution runtime.

SOFTWARE & PRODUCT ENGINEERING

Headstarter AI

San Francisco Bay Area (Remote)

Software Engineering Fellow

July 2024 – August 2024

- Designed and deployed 5 full-stack AI applications in 5 weeks, using agile methodologies to scale each application to 200+ active users.
- Developed a customer support chatbot utilizing Next.js, OpenAI API, and Pinecone vector database for semantic search, reducing query resolution times by 50%.
- Co-created a SaaS flashcard generator leveraging Llama 3.1 LLM, Groq API, and Stripe API with dynamic pricing, improving educational platform user engagement.

Equity Bridge Nepal

Kathmandu, Nepal

Product Management & Software Engineering Intern

May 2022 – August 2022

- Architected and built interactive dashboards using React.js and Django, streamlining database access with optimized SQL queries and reducing platform latency by 40%.
- Enhanced user matching algorithms, leading to a 50% increase in successful academic scholarship allocations for underprivileged students.
- Formulated testing frameworks (unit and integration tests) to ensure 100% platform uptime and reliable data flow for active user profiles.

LEADERSHIP & COMMUNITY IMPACT

Uunchai | Co-Founder & Organizer

March 2024 – Present

- Founded a youth-led initiative to foster digital literacy and preservation; led a team of 10 students in developing "Bhanu," an NLP-driven AI tool to archive and translate regional Nepali folk stories.
- Hosted virtual STEM and AI workshops partnering with mentors from top global universities, engaging 30+ participants in hands-on, project-based coding exercises.

Moliss Tech Community | Founder

January 2022 – September 2022

- Established and scaled a regional tech community, organizing 10+ bootcamps, 7 workshops, and 5 hackathons to engage 275+ students across 13 schools.
- Fostered collaborative learning and technical skill development, building a network of 100+ active developers.

Covid Resources Nepal | Research Team Lead & Tech Member

June 2021 – September 2021

- Developed a web platform displaying real-time availability of hospital beds and oxygen supplies, raising \$20,000 in relief funds and assisting 900+ families.

SKILLS & INTERESTS

Programming Languages:

Python, Java, JavaScript, SQL, C, C++, HTML/CSS

Frameworks & Tools:

React.js, Next.js, Django, FastAPI, PyTorch, TensorFlow, Docker, AWS (Lambda, ECS, S3), Git

Technical Competencies:

Data Analysis, Financial Modeling, Corporate Valuation (DCF, Multiples), Time-Series Forecasting, API Design, Agile Development

Interests:

Quantitative Investing, Cryptography, Classical Music (Acoustic/Piano Performance)