

Shivam Garg

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EDUCATION

Indiana University

Bloomington, Indiana

GPA: 4.0 | Bachelor of Science in Computer Science and Mathematics

August 2021 – May 2025

Coursework: Autonomous Robotics, Deep Unsupervised Learning, Machine Learning, Computer Vision, Quantum Computing, Real Analysis, Abstract Algebra, ODEs, PDEs, Classical Mechanics, Compilers, Operating Systems, Distributed Systems, Networks, Theory of Computation, Algorithms and Data Structures, Electromagnetism, Microeconomics, Molecular Biology.

Awards: Herman B. Wells Scholarship (full-ride four-year scholarship), Dean's List, 1st place at International Artificial Intelligence Fair, Ex-National Cricket Team Player of Singapore.

Skills: Python, C, Typescript, HTML, React, Node.js, Git, Docker, Kubernetes, C++, ROS, PostgreSQL, Azure/AWS, NextJS, GraphQL, Flask, Firebase, MongoDB, Pytorch, OpenCV.

EXPERIENCE

Software Engineer and Co-founder at Polychain

December 2021 – April 2022

Send and Receive Popular Cryptocurrencies Using a Link

Bloomington, IN

- Architected and deployed a scalable full-stack web application enabling seamless cryptocurrency transactions (for individual and E-commerce use) and NFT showcases. Implemented dApp authentication, REST API, end-to-end testing, embeds, dashboard, analytics, NFT galleries, multi-chain payment gateway, CI/CD Pipelines etc.
- Spearheaded user acquisition strategies, achieving 1,000+ active users within two weeks post-launch.

Software Engineer and Co-founder at Streamling

August 2021 – November 2021

Decentralized Streaming Platform with Creator Tokenization

Bloomington, IN

- Developed a decentralized video streaming platform with integrated creator tokenization, utilizing DeSo Blockchain and Media Network for enhanced decentralization and scalability.
- Implemented end-to-end solutions using Angular, TypeScript, and MongoDB, deploying services on AWS to ensure high availability. Received about USD 6,000 in funding and admitted to IU's Startup Accelerator.

Teaching Assistant and Directed Reading Program Mentee

August 2022 - May 2025

IU Math Department

Bloomington, IN

- Conducted independent study in advanced mathematical topics, including Topology, Complex Analysis, Category Theory, and Abstract Algebra, under graduate mentorship.
- Facilitated learning for 250+ students by leading interactive doubt-solving sessions and streamlining academic support processes via Canvas and email.
- Helped with exam invigilation, grading, and other administrative and academic duties of M118, M119, H211, etc.

Founder and Instructor at TestPrep International

June 2019 - May 2021

Tutoring Nonprofit Organization

Mumbai, India

- Scaled the organization to a 50-member instructor team, educating 250+ students across 11 countries.
- Co-created 14 IGCSE and 13 CBSE subject courses with 200+ enrollments.
- Designed and launched educational websites with 100,000+ from over 130 countries, delivering curated resources for IGCSE and SAT preparation.

PROJECTS

Spero | Machine Learning for Major Depressive Disorder Diagnosis

- Investigated differential linguistic patterns exhibited by Major Depressive Disorder Patients and built an LSTM network (95% accuracy), logistic regression model, and a multinomial naive Bayes classifier algorithm to develop Spero, an iOS app for early diagnosis of depression.
- Research findings published in IJSRCSEIT Vol 6, Issue 5.

Healera | Smart Faucet Extension and Android App

- Designed an IoT-enabled smart faucet extension and Android app to monitor water consumption, leveraging Arduino and various sensors & hardware for touchless functionality and overflow prevention.
- Recognised by the Executive Director of UNGC India. Won 9+ research awards. It was also featured in a four-part documentary for India's Future Tycoon's competition.