Shivam Garg

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EDUCATION

Indiana University — Bloomington, Indiana
Bachelor of Science in Computer Science and Mathematics — *Aug. 2021 – May 2025*
Coursework: Real Analysis, Abstract Algebra, ODEs, PDEs, Vector Calculus, Linear Algebra, Classical Mechanics, Electromagnetism, Compilers, Machine Learning, Operating Systems, Distributed Systems, Networks, Theory of Computation, Algorithms and Data Structures, Discrete Math, Electromagnetism, Microeconomics, Molecular Biology

SVKM International School — Mumbai, India
IGCSE: 9/9 A* | SAT: 1520 | IBDP 44/45 — *July 2019 – May 2021*

EXPERIENCE

Polychain | Send and Receive Popular Cryptocurrencies Using a Link — Sep. 2018 – Present
Software Engineer — *Bloomington, IN*
- Developed, Tested, and Deployed a full stack web app that allows one to receive crypto (BTC, eth, sol, etc.) and showcase their NFTs using a shareable link. Implemented dApp authentication, embeds, dashboard, NFT galleries, multi-chain payment gateway, etc.
- Marketed Polychain and gained 250+ users within the first two weeks.

Streamling | Decentralized Streaming Platform with Creator Tokenization — May 2019 – July 2019
Software Engineer — *Bloomington, IN*
- Programmed a decentralized video streaming platform with native support for creator tokenization using the DeSo Blockchain and Media Network (dCDN).
- Used Angular, Typescript, and MongoDB. Deployed Frontend, Backend, DeSo Node, and Media Server Instance on AWS. Received about USD 6,000 in funding and admitted to IU's Startup Accelerator

IU Math Department
Teaching Assistant and Directed Reading Program Mentee — *Bloomington, IN*
- As a DRP mentee, I independently studied and worked on problems from Topology, Measure Theory, Complex Analysis, Category Theory, and Abstract Algebra with a graduate student mentor.
- Assisted 250+ students through weekly doubt-solving sessions at the Math Learning Center and via email.
- Helped with exam invigilation, grading, and other administrative and academic duties of M118

TestPrep International
Founder and Instructor
- Expanded instructor team to around 50 and a student body to 200+ from 11 countries.
- Co-created 14 IGCSE and 13 CBSE subject courses with 200+ enrollments. Organized over 60 lectures and doubt-solving sessions.
- Created and gathered resources for two websites (prepIGCSE and prepSAT) with 60,000+ users from 130+ countries.

Harvard University's Coronavirus Visualization Team
Director of Project Management
- Managed 13 research projects, collected progress reports, and facilitated member onboarding and recruitment.
- Investigated how the percentage of the total population with basic hand washing facilities in different countries affected the spread of SARS-CoV-2.

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 and Programmed an IoT faucet extension (using Arduino) that connects with an android app I developed to measure water consumption, prevent water overflow, and make ordinary taps touchless through sensors and various hardware.
- Recognised by the Executive Director of UNGC India. Won 9+ research competitions. It was also featured in a four-part documentary for IFT

Awards

Herman B. Wells Scholarship:: Full ride four-year scholarship to Indiana University
International Artificial Intelligence Fair: 1st internationally
HV Spellman Clean Tech Competition: Top-10 Internationally
India's Future Tycoons (IFT): Top-6, Grand Finalists, Best Pitch, 7000+ participants
IRIS National Fair: National Finalist
Global Citizen and Champions Scholarship: $60,000 for high school

Skills

Technical Skills: Python, C, SQL (Postgres), Typescript, HTML/CSS, R, React, Node.js, Git, Docker, C++, ROS