AMRITKAR ATHARVA SHARAD | 20HS20005

ECONOMICS (M.Sc. 5Y)
MINOR in MATHEMATICS & COMPUTING (M.Sc. 5Y)
MICRO SPL. in ARTIFICIAL INTELLIGENCE AND APPLICATIONS

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2025	5 YRS M.SC	IIT Kharagpur	8.13 / 10
2020	HSC	Dr. Dy Patil	79.23%
2018	SSC	Amrita Vidyalayam	90%

INTERNSHIPS

MITACS Globalink Research Internship | University of Calgary *May'23 - Jul'23*
- Implemented a **proof-of-concept** using federated learning for accurate prediction in medical imaging leading to **26%** more accurate models
- Implemented model aggregation, where periodically sent models are merged on a central server, resulting in **38%** speed increase
- Developed a Hyperledger-based federated learning system with flower framework, tested it in collaboration with **18** Canadian hospitals
- **Published a research paper** on "Blockchain-based Federated Learning Systems For Medical Imaging" in blockchain conferences

Strategic Growth Consultant | Polygon Technology *Feb'23 - Jul'23*
- Contributed as an integral part of the core **Polygon Labs team**, actively involved in the successful launch of Polygon 2.0
- Worked with growth team of Polygon, spearheading the expansion of the Polygon network, driving the **launch of multiple hackathons**
- Represented Polygon at **9+** conferences, delivering presentations and engaging stakeholders to promote network benefits and capabilities
- Handled the logistics of the Polygon team **ETHWaterloo** and also reviewed **80+ projects** during hackathon and got **leads** for projects

Venture Capital Analyst | Router Protocol x Aten Ventures *Sept'22 - Jan'23*
- Conducted in-depth interviews with over **40** companies, delivering comprehensive reports and analyses highlighting key insights and findings
- Participated in **15+** investor meetings, prepared investment materials, and assisted with investor relations activities to support fundraising
- Assisted in managing a portfolio of **16** investments, monitoring their performance, analyzing key metrics, provide updates to investment team
- Collaborated with cross-functional teams on **several investment transactions**, ensuring smooth execution and post-investment activities

Google Summer of Code | Gentoo Linux *May'22 - Aug'22*
- Contributed to the integration of RISC-V support into Gentoo Prefix, a critical step in **EESSI and NASA project's** target CPU architectures
- Developed a new profile in Gentoo Prefix specifically for RISC-V, resolving bugs encountered during the bootstrap process in **three stages**
- Tested, debugged, and keyworded over **150** packages in the Gentoo ebuild repository for RISC-V, with approximately **28 PRs** merged
- Received **letter of recommendation** and a **job offer** from mentors Kenneth Hoste, Guilherme Amadio, and the Gentoo Foundation

Summer of Bitcoin | Fedimint *Apr'22 - Jul'22*
- Developed the Fedimint module for **Nix-Bitcoin**, allowing seamless configuration of a Fedimint federation member within the Nix module.
- Integrated the Fedimint Module with **clightning** through the **In-gateway**, establishing a reliable bridge for communication between systems.
- Implemented **reproducible builds** using Nix expressions, employing nix-flakes, while also setting up **CI/CD workflow** with Github Actions.
- Led the development of a project from inception, achieving significant milestones with over **200 PRs, 400 stars**, and successful funding.

Summer of Nix | Jitsi *Mar'22 - Jun'22*
- Collaborated closely with the **Jitsi team**, leveraging Nix to package applications of Jitsi and NlNet, ensuring reproducible builds
- Developed CI/CD workflow using Github actions, effectively implementing automated workflows for all packages and multiple architectures
- Merged **20+** pull requests in the core Jitsi, NlNet repository, maintained several repositories and got awarded as the **top contributor**

AWARDS AND ACHIEVEMENTS

- Got sponsored for **ETHWaterloo** Hackathon, won **ETHGlobal**, earned **$9,000** in bounties for **zkare**, and presented to **Vitalik Buterin**.
- **Speaker** on "Hyperledger-based Federated Learning" at Linux Foundation's Open Source Summit,**North America**, with travel sponsorship
- Accepted into the exclusive **Cowry Global Summer School 2023** as a **Behavioural Consultant** with an acceptance rate of less than **0.1%**.
- Achieved a position in the **BCG Ideathon** cross-campus competition, ranking within top **30 participants** among premier institutes in India
- Contributed to the **Gold** Winning Contingent in **InterIIT Teach Meet 11.0** held in IIT Kanpur for the **Consensys** problem statement
- **ETHGlobal Winner** at **ETHIndia** Hackathon among **2000+ participants**, earning StackOS and Router bounties for project SourceHunt.

POSITIONS OF RESPONSIBILITY

Founder | Blockchain Society | IIT Kharagpur *Dec '22 - Present*
- Organized hackathons and mentored open-source enthusiasts, facilitating their understanding and engagement with blockchain technology
- Conducted more than **12** workshops to educate IIT Kharagpur students about blockchain, fostering a community of over **250** students
- Started weekly research paper sessions, empowering over **15 students** to win web3 hackathons and promoting the hackathon culture
- Managed finances worth **3 lakh**, responsible for **20+** member society, engaged with investors to **secure funding** for events and workshops

Advisor | Kharagpur Open Source Society | IIT Kharagpur *Jun '21 - Jun '23*
- Responsible for the smooth conduct of workshops and events to familiarize students with open source technologies and philosophy
- Conducted Kharagpur Winter of Code (**KWoC**), 2022, a month-long program for students, which saw the participation of **2500+** students
- Orchestrated **8 workshops**, hands-on sessions, and seminars for Open Source programs like Google Summer of Code and several more
- Managed finances worth **2 lakh**, led a team of **14** members, and led multiple successful workshops and hackathons as the **Head** of society

ENTREPRENEURIAL EXPERIENCES

Founder | zkare.io *Jan '23 - Present*
- **Lead** a team of **12** to develop a zero knowledge based ecosystem for hospitals and patients, and tested it with **8 Canadian Hospitals**.
- Delivered an MVP at **ETHWaterloo** hackathon, presenting the product to Vitalik Buterin and raising **$9000** in funding.
- Successfully presented and validated the idea with over **30+ researchers and doctors**, with rigorous testing and receiving their validation.
- Published the whitepaper, pitch deck and MVP for the project, with guidance from **Prof. Steve Drew** of the **University of Calgary**
- Contributed to a cross-functional team in developing an innovative application, achieving **5,000** downloads and receiving positive feedback.

COMPETITION/CONFERENCE

- Won **1st place** the on-site **Reef** Hackathon, organized by Reef Blockchain, out of **300** participants and received bounties for the project.
- Participated in the **Solana Hackday** organized by Solana Foundation x Superteam, emerged as the **winning** team for project **SolMate**.
- Acknowledged as a **top 2 mentor** and contributor in **GWoC** for guiding **30+** contributors in the tracks of Rust and Solana
- Achieved top-ranking in the **Grizzlython** Hackathon, organized by **Solana** Foundation, for our exceptional skills and recognized project.