Raj

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EDUCATION

Jamia Hamdard University, Delhi, India   Jul 2017 – Jul 2021
- B.Tech, Computer Science. CGPA: 9.22/10
  - Relevant Coursework: Databases, Algorithms, Distributed Computing, Formal Languages & Automata Theory, Compiler Design, Operating System, Computer Networks, Discrete Mathematics.

WORK EXPERIENCE

YieldBay/YieldScan | Singapore   Nov 2021 – Oct 2023
- Head of Engineering/Founding Team
  - Built a yield aggregator and dashboard to manage portfolio across 159 yield farms, 17 protocols & 9 parachains, tracking **$39M** in the Polkadot ecosystem: *list.yieldbay.io*
  - Scaled YieldScan, the staking dashboard for Polkadot to **9-figures** (USD) in transaction volume. demo: *youtu.be/N8V4D2PpuLk*
  - Partnered with *Mangata Finance* and *OAK Network* to build **the first yield autocompounder using XCM**. *launch announcement*; demo: *youtu.be/M-K4eHP9Vno*

BUIDL Labs | Delhi, India   Jul 2020 – Nov 2021
- CTO, *DataStation*
  - Reduced information asymmetry in the *Filecoin network* by simplifying storage provider stats.
  - Developed a transaction history processor, earnings aggregator and future earnings prediction system for Filecoin miners (*codebase*, *devgrant proposal*). Wrote a *chain indexer* to fetch relevant data.
  - Onboarded **100+** storage providers; helped them calculate their earnings and simulate ROI.
- Blockchain Engineer | Researcher
  - Built a decentralized video streaming API using Livepeer (video transcoding) & Filecoin (p2p storage): *file.video*. Reduced video streaming costs by **90%** and storage costs by **4000x**, compared to web 2.0 alternatives.
  - Developed a decentralized DRM via forensic watermarking of videos using GANs (generative adversarial networks), followed by transcoding in the livepeer network. This lets us reduce transcoding costs by **90%**, while preventing content piracy.

MacPorts, Google Summer of Code | Remote   May 2019 – Aug 2019
- Student Developer
  - Ported MacPorts *Buildbot* (CI/CD) Infrastructure from version 0.8 to 2.x.
  - Developed a custom views *plugin* for Buildbot that enables writing UI components in modern frameworks like Vue/React.js instead of Angular.js (supported in Buildbot by default).
  - Scaled Buildbot for large instances (to support **>25k builds** at once): *commits*.

RELEVANT PROJECTS

Blockchain Grants Index
- A google sheet of orgs that are offering grants to build blockchain projects.
- Received **900+ requests** to share this with people via Twitter: *rajgoesout.gumroad.com/l/grants*.

Cherry Pick, Google Summer of Code Playbook
- An E-Book to get started with Open source software development and get accepted in GSoC.
- Sold **70+ copies**: *rajgoesout.gumroad.com/l/gsoc*.

ScholarDAO, Democratize Research
- Protocol for decentralized, autonomous publishing of scientific research using a peer-review system, reputation system of scientists, and citations indexer.
- Developed a *subgraph* to keep track of citations and H-Index of scientists.
- Wrote a Chainlink *External Adapter* to verify identity of actors.

ACTIVITIES & AWARDS

- **Superteam** - Content Writing Bounty - Wallet Opsec   Feb 2024
- **Speaker** - Web3Conf India, Goa - "BUIDL Interoperability-first smart contracts with ink!"   Aug 2022
- **HackFS** - Finalist (top 12 out of 150 teams worldwide), won $5k   Aug 2021
- **Mentor**, Google Summer of Code @MacPorts   May 2020 – Aug 2020

SKILLS

- Languages: Rust, TypeScript, Golang, Python, Solidity, PostgreSQL.
- Technologies: React/Next/Vue.js, Ethers/Web3.js, GraphQL, MongoDB, Redis, RabbitMQ, Docker.
- Others: Content Creation, Copywriting, Technical Writing.

[*CV compiled on 2024-03-02*]