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# Jyothir Raghavalu Bhogi

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## Education

### Lovely Professional University

2022 – 2026

B.Tech in Computer Science and Engineering, Jalandhar, Punjab

## Technical Skills

### Languages:

- Python, Golang, JavaScript, C++, Java, DSA

### Blockchain:

- Smart Contracts, POA Network Deployment, Blockchain Node Management

### Technologies/Frameworks:

- Django, Node.js, React, MongoDB, Docker, AWS, GCE, Cloudflare, Celery, PostgreSQL

### DevOps & Monitoring:

- Grafana, Prometheus, Log Processing, Hashicorp Nomad, Docker Swarm

## Experience

### Software Engineering Intern

May 2023 – Present

Cipher Schools

- Developed and deployed scalable applications using Django, Node.js, MongoDB, and React.
- Designed REST APIs and integrated Celery for task queue management.
- Implemented blockchain node deployment automation using Python scripts.
- Utilized AWS and Docker to create scalable, secure cloud environments.
- Worked on monitoring solutions using Grafana and Prometheus to ensure network reliability.
- Collaborated in an Agile development environment, conducting code reviews and pair programming.

## Projects

- **Blockchain Node Deployment Automation** (Dec 2023) - Developed Python/Django-based automation scripts for managing blockchain validator nodes. Integrated Celery for task scheduling and Redis for state management. Deployed secure cloud infrastructure on AWS, ensuring high availability.
- **Smart Contract Development and Testing** (Nov 2023) - Built and deployed Ethereum-based smart contracts for decentralized applications. Conducted extensive testing and debugging of blockchain deployments. Worked on POA network deployment and debugging blockchain validation errors.
- **Covid-19 Prediction Model** (Aug 2023) - Built an AI-powered forecasting system for Covid-19 trends based on mobility patterns and government policies. Used Scikit-learn, Pandas, and AWS cloud computing for scalable processing.

## Open Source Contributions

- Actively contributed to open-source blockchain projects.
- Developed and optimized backend services using Django and Node.js.
- Collaborated with teams on GitHub to improve project performance and scalability.
- Led feature development and issue resolution in various open-source projects.

## Certifications

- **Data Structures and Algorithms (C, C++)** – Coursera
- **Blockchain Fundamentals and Smart Contracts** – Udemy
- **Cloud Computing with AWS** – Udemy
- **Full-Stack Web Development with Django and React** – Coursera

## Additional Experience

- Familiarity with Agile methodologies, Scrum, and CI/CD pipelines.
- Experience with performance optimization tools such as Cloudflare for web applications.
- Passion for blockchain, decentralized networks, and security-focused development.