Sumit Lahiri

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Summary

I am a full-stack developer pursuing a Ph.D. from IIT Kanpur on Formal & Semi-Formal Verification of software applications. I am a developer on Blockchain technologies namely Fabric, EVM-Solidity & Bitcoin (bitcoin-core). I mostly write code in C++, Golang, JS and a bit in python.

Apart from research work, I have good working experience with Node.js, React, Redux, ExpressJS, MongoDB, PostgreSQL, Web-RTC, GraphQL and sockets-io. I host my applications or serverless gigs on AWS or GCP and have good working knowledge on NGINX, Dockers & Kubernetes.

Experience

Campus Expert
GitHub

Jan 2020 - Present (10 months +)
Building a thriving developer community powered by GitHub. Few PRs and screening left.

Graduate Research Fellow
Tata Consultancy Services

Jul 2020 - Present (4 months +)
Awarded Ph.D. Research Fellowship in Computer Science from TCS COIN (Innovation Center).

Teaching Assistant
Indian Institute of Technology, Kanpur

Jul 2019 - Present (1 year 4 months +)
- Data Structures & Algorithms (ES0207)
- Software Development & Operations (CS253)
- Advanced Compiler Optimizations [LLVM, KLEE, clang] (CS738A)

Remote Developer (Solidity-Golem)
Golem Factory

Mar 2018 - Sep 2018 (7 months)
Built an EVM-Golem smart contract processing and compilation pipeline in Node.js using truffle, open-zeppelin, solc and node-parser.

Program Manager
Tata Motors

Aug 2017 - Dec 2017 (5 months)
Worked on AC Implementation for N2/N3 Category of M&HCV Vehicles.

Graduate Engineering Trainee
Tata Motors
Aug 2016 - Aug 2017 (1 year 1 month)
Worked on VAVE Ideas Implemetation.

Summer Trainee
Steel Authority of India Limited
Jun 2015 - Jul 2015 (2 months)
Summer Training at ASP & DSP SAIL, Durgapur. Foundry and Steel workshop.

Education

Indian Institute of Technology, Kanpur
Doctor of Philosophy - PhD, Computer Science
2019 - 2024
https://cse.iitk.ac.in/users/sumitl

National Institute of Technology Durgapur
Bachelor of Technology - BTech, Mechanical Engineering
2012 - 2016
https://www.nitdgp.ac.in

Licenses & Certifications

AI Seminar @IITK - Intel Corporation

CUDA & HPC GPU Performance (One Day Camp) @IITK - NVIDIA

Design Patterns in Go - Udemy

TypeScript : Complete Developers Guide [Full Stack Developer] - Udemy, Inc.

Grokking System Design - Educative, Inc.

C++ Advanced - HackerRank
https://www.hackerrank.com/certificates/b6185d344d52

C++ Intermediate - HackerRank
https://www.hackerrank.com/certificates/c04be0fcd2ed