

# Abhishek Kumar

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github.com/xenowits

## EDUCATION

### NIT TRICHY

#### BTECH | COMPUTER SCIENCE AND ENGINEERING

July 2017 - Jun 2021

Trichy, India

Cumulative GPA: 8.42 / 10.0

## LINKS

Twitter:// [xenowits](#)

Github:// [xenowits](#)

LinkedIn:// [Abhishek Kumar](#)

## COURSEWORK

### UNDERGRADUATE

Advanced Cryptography

Operating Systems

Algorithms and Data Structures

Combinatorics and Graph Theory

Database Management Systems

Unix Tools and Scripting

## SKILLS

### PROGRAMMING

Languages:

Solidity • Rust • Golang • JavaScript •

NodeJS • TypeScript • HTML • CSS

AWS:

EC2 • API Gateway • Lambda • RDS

• AppSync • Amplify • DynamoDB

Technologies:

Web3JS • Blockchain

Tools:

Hardhat • Remix

## EXPERIENCE

### AMAZON | SOFTWARE DEVELOPMENT ENGINEER INTERN

May 2020 - Jun 2020 | India

Project Title : Clean URL, Front Door RESTful Services for Payfort.

Built a front door REST API layer over the existing Payfort services using available AWS services like AWS API Gateway and AWS Lambda.

Used AWS CloudWatch logs to monitor the APIs. The APIs were written in golang

Created OpenAPI specification to describe entire REST APIs.

### CONTRACT EIP712 SIGNATURE AND VERIFICATION IN GOLANG

Jun 2021 | Remote

Implemented EIP712 to sign as well verify strings and structured data

Used the implementation to integrate with metamask wallet to authenticate client and generate JWT token

Setup a go-chi server to test the application

## PROJECTS

### IMPLEMENTATION OF ZK-SNARKS

- Implement ZK-SNARKs - Zero Knowledge-Succinct Non-interactive Argument Of Knowledge
- Use open source tools like **snarkjs** and **circom**
- Implemented concepts like Quadratic Arithmetic Programs, Power of Tau ceremony for MPC, Rank-1 Constraint System etc.

### GEOSPATIAL NFT MARKETPLACE | HARMONY

- Building a collectible NFT marketplace for real-world locations on planet Earth on harmony protocol.
- It would let user to own and collect their favorite spots around the world just like any other collectible.
- Currently, this is an ongoing project.
- <https://github.com/twin-devs/geospatial-nft-marketplace>

### ALGORITHMS | RUST

- Implementation of popular algorithms and data structures in rust language
- Currently, this is an ongoing project.
- <https://github.com/twin-devs/algorithms-in-rust>