

# Shubham Kumar

Senior Software Engineer | CTF Player | Hacker

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## About

Seasoned software engineer with expertise in end-to-end development cycle. Demonstrated success in optimizing intricate systems, overhauling payment applications, and elevating user experiences through inventive solutions.

## Work Experience

6+ Years

**AirFi** Remote

2021 - Present

Senior Software Engineer

- Proficiency in designing and optimizing intricate systems.
- Augmented offline Payments Applications with online verification capabilities in the presence of internet connectivity.
- Noteworthy increase in Captive portal launch rates, from 50% to over 75%.
- Developed a versatile Remote Sync Service for content synchronization.
- Executed comprehensive refactoring of ADS-B Services for seamless event communication.
- Pivotal role in enhancing email accessibility via satellite.
- Implementation of restrictions to text-only formats for improved email accessibility.

**Juspay** Onsite

2018 - 2021

Software Developer

- Core Member of the team, responsible for designing and implementing the payout system
- Revamped CRED app's payment backend in PureScript, slashing payout time from 1 minute to 6 seconds
- Enabling seamless credit card transactions
- Generic fulfillment for various financial operations
- Implemented BillPayment Service for HPGas on Google Pay.

**Juspay** Onsite

2017 - 2018

Software Developer Intern

- Implemented a RESTful crypto service with secure key storage for encryption and signing

## Education

**The Oxford College of Engineering, Bengaluru VTU**

2013 - 2017

Bachelor's of Engineering, Compute Science

# Skills

## Programming Language

- Haskell
- Purescript
- TypeScript
- JavaScript

## Databases

- CouchDB
- PostgreSQL
- Redis
- MySQL
- MongoDB

## Framework And Runtime

- NodeJS
- Express
- Bun
- NextJs
- NestJS

## Tools

- ZSH
- Kubernetes
- Netlify
- Git
- Google Cloud
- Linux
- Supabase
- FlyIO
- Docker
- MacOS
- Amazon Web Services
- Digital Ocean
- Heroku
- GNU Bash
- Neovim
- Render
- VS Code
- TailwindCSS

# Projects

## f3v3r.in

Cybersecurity  
blog

## hexo-twitter-auto-publish

A Hexo bot to auto tweets on Twitter for the blogs published via Hexo

## urlshortner

A URL Shorter service

## fly\_db\_backup

A tool to backup and restore Postgres database hosted on fly.io to cloudflare R2

## Discord Bot

A role management Discord Bot

# Certifications

## Google Cybersecurity Specialization

Google

## Automate Cybersecurity Tasks with Python

Google

## Tools of the Trade: Linux and SQL

Google

## Connect and Protect: Networks and Network Security

Google

## Sound the Alarm: Detection and Response

Google

## Assets, Threats, and Vulnerabilities

Google

## Foundations of Cybersecurity

Google

## Understanding CouchDB 3: Learn Basic & Advanced NoSQL Skills

Udemy

## Ethical Hacking for Beginners

**Bash Scripting and  
Shell Programming  
(Linux Command  
Line)**

Udemy

Udemy

**Practical Ethical  
Hacking -The  
Complete Course**

Udemy