

Rajeev Tripathi

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EDUCATION

Chandigarh University

Expected Graduation:- May 2024

Bachelor of Engineering in Computer Science (GPA: 7.78 / 10.00)

Chandigarh, India

- **Relevant Coursework:** Data Structures and Algorithms, Operating Systems, Computer Networks, Databases, Advance Programming in C Language, Information Security and Cryptography using C language

EXPERIENCE

Nokia Networks and Solutions

Aug. 2023 – Present

Software Engineering Intern @ NEIW team

Bangalore, India

- Developed and tested back-end systems of CNUM feature which is responsible for integrating network elements to the integration plan automatically for circle owners of 5G impacting around **50 million** users in India.
- Introduced framework for testing the application using Jest by automating the license upload for lab, saving **20-25%** hardware resources efforts by creating a **bash** script to run a clone repository on the Oracle VM.
- Accomplished **25%** improvement in API response time by migrating a script from **Jruby** to **Golang** and **13%** lower server load achieved and remove duplicate search by implementing a Binary Search Tree.
- Engineered authentication on a micro service architecture using **PassportJS** and **JSON Web Tokens (JWT)** in Typescript estimated to reduce **73%** unauthorized users and increase revenue by **50k \$ per year**.
- Automated Sonar Qube connection to Jenkins pipeline and wrote automation test cases to improve code coverage from **74%** to **95%** for NEIW.
- **Technologies Used:-** Typescript, NodeJS, PostgreSQL, Docker, Robot Testing Framework, Golang(Basics)

PROJECTS

Decentralised Blogging Platform | GitHub Link | Live Link

- Devised a decentralized micro blogging platform on Ethereum blockchain and ReactJS to build personal network.
- Applied Solidity gas efficient practices to minimize the risks of drying out resources and ensure safety for users.
- Established a real-time chat using Socket.io, enhancing user engagement, and reducing response time by 20%.

Resume Builder for Professionals | GitHub Link

- Implemented a full stack application built using Django and JavaScript JQuery to simplify the building of resumes.
- Reduces average resume-making time from 25 mins to 21 mins equivalent to 20% improvement for professionals.
- Integrated automated testing for a critical module using Selenium, reducing regression bugs by 30%.

S AES Digital Signature | GitHub Link

- Applied cryptography algorithms, in C Language with a focus on AES and DES to design a secure digital signature.
- Employed optimization techniques from DES to AES to have faster processing and reduced resource utilization.
- Conducted thorough cryptographic analysis to identify potential vulnerabilities and implemented countermeasures.

SKILLS

Languages : C/C++, JavaScript/Typescript, GoLang(Beginner), HTML/CSS, SQL (PostgreSQL)

Frameworks : ReactJS, NodeJS, Django, Ethereum, Selenium, Docker, Jenkins, Jira, Git

ACHIEVEMENTS

- Solved **300+** coding problems on LeetCode and earned 6 badges including **100 days** coding Badge for 2023.
- Runner Up in Lenovo Legion Esports tournament out of 50+ global teams in the final round of BGMI division.