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Prashant Kumar

Software Engineer

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EDUCATION

Indian Institute of Information Technology, Gwalior

Oct 2020 - May 2025 *expected*

B.Tech (Information Technology) + Masters

SGPA : 8.50 CGPA : 7.12

Course Work

Computer Networks, Database management system, OOPS, Operating system

SKILLS

Languages

C++, Python, Javascript, Typescript, Go

Tools and Frameworks

NodeJS, Django, Git, Docker, AWS, kubernetes, Kafka, Unit Test, Redis, Linux

Database

MySQL, MongoDB, Postgres, Firebase

TECHNICAL EXPERIENCE

Software Engineer Intern | Secure Blink

Noida, Remote

Python, TypeScript, NodeJS

April 2024 - July 2024

- Designed web application security scanning tool using Node.js, MySQL, and MongoDB, working on 12+ APIs.
- Integrated **OWASP ZAP** via Docker for authenticated and non-authenticated security scanning.
- Created a comprehensive **Docker-in-Docker** solution that enabled seamless integration, resulting in a 30% decrease in setup time for new development environments and enhancing overall team productivity.
- Implemented scheduling system for automated **recurring** and **one-time** security scans.

Python Developer Intern | INeuron.ai


Bangalore, Remote

Python, Django, Agile software development

Feb 2024 - March 2024

- Leading a project to redefine real-time communication through video conferencing and chat.
- Integrated websockets and WebRTC, reducing latency by 20% for seamless user experiences.
- Used WebRTC for P2P video calls, addressing complex challenges and achieving a 30% reduction in server load.

CODING PLATFORMS

 [Leetcode//vukoga](#): Achieved a maximum rating of **1691**, solving over **300 problems**.

 [Codeforces//_algo_voyager](#): Attained **Specialist** rank with a peak rating of **1448**.

 [StopStalk//iampkumar](#): Accomplished a total of **300+ problems** across multiple platforms.

PROJECTS

Scalable backend application

[Code](#)

- Developed a distributed system using **Go microservices** architecture with **gRPC** communication, implementing **service isolation** and **fault tolerance**
- Implemented **containerized** services using **Docker** with automated **PostgreSQL** database connectivity and **retry mechanisms** for robust **error handling**
- Created **RESTful API** endpoints with **environment-based configurations**, supporting **real-time data synchronization** between services

Local-Torrent

[Code](#)

- Engineered a **desktop application** enabling group chat, private messaging, and file sharing for 100+ users.
- Integrated **socket programming** and P2P protocols to achieve <100ms message delivery using **Python** and **PyQt5**.
- Optimized multi-threading processes to facilitate seamless, real-time communication for over 50 users.

TSP-Solver

[Demo Code](#)

- Developed **Simulated Annealing** and **Chaotic Whale Optimization Algorithms** in Python to solve the TSP.
- Created interactive visualizations for **algorithm convergence** and solution quality using **Streamlit**.

ACHIEVEMENTS

- Achieved **50th rank** out of **31,000 participants** in the [CodeChef START152D Contest](#)
- Secured **380th position** in the [Codeforces Round 995](#)
- Solved **700+ competitive programming problems** across various platforms.
- Ranked among top 2 percentile out of 1 million aspirants.
- XMPP Client** Contributed to some open source repositories including GNOME Setting and Dino