

Shubham Kumar

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PROFESSIONAL EXPERIENCE

Scale AI

San Francisco, California, United States (Remote)

Contract Employee via G2i

03/2024 - Present

- **AI Code Evaluation:** Assessed AI-generated code for readability, correctness and best practices.
- **Problem Solving:** Solved complex coding problems with functional and efficient solutions.
- **Code Review:** Identified and fixed functional and security vulnerabilities in AI-generated code.
- **Mentorship:** Conducted code reviews and mentored junior developers.
- **Skills:** Python3, Pandas, Numpy, Matplotlib, scikit-learn

Techstat dynamics pvt limited

Ludhiana, Punjab (Remote)

FreeLancer

11/2023 - 02/2024

- **Microservices Architecture:** Developed a microservice-based architecture for improved maintainability and streamlined deployments.
- **Reliable Data Transmission:** Implemented WebSocket communication for stable and efficient data exchange between trading broker and portal.
- **Efficient Communication:** Designed and integrated Redis Pub/Sub architecture for seamless microservice communication.
- **Containerization:** Utilized Docker Compose for containerization and orchestration of microservices.
- **Performance Optimization:** Conducted performance testing and monitoring to identify and resolve bottlenecks proactively.
- **Skills:** Python3, Django, websocket, PostgreSQL, ReactJS, Redis, Nodejs, Nginx, Docker

Radisys Corporation

Bangalore, Karnataka

Senior Software Engineer, 5G Platform Team

07/2021 - 11/2023

- **Optimized System Performance and Scalability:** Reduced JIO CCDU Server startup and shutdown times by over 50 seconds. Decreased server size by 72%. Automated setup and configuration, minimizing errors.
- **Enhanced Monitoring and Logging:** Added customizable metrics and alarms in SysMon. Fixed memory leaks and improved CPU utilization metrics in NGP logger.
- **Leadership and Collaboration:** Led a team of five in a hackathon. Participated in feature discussions with the JIO team. Mandatory reviewer for all platform repositories.
- **Automation and CI/CD Integration:** Developed Jenkins build scripts, automated CCDU image building, and created scripts for test cases and code coverage reports. Implemented custom GCC flags and patches for open-source libraries.
- **Process and Environment Customization:** Created startup scripts for custom environments in ProcMon. Ensured compatibility and performance by applying patches before building open-source libraries.
- **Innovative Feature Development:** Implemented WebSocket communication for reliable data transmission and Redis Pub/Sub for microservice communication. Added new features to enhance functionality across systems.
- **Skills:** Object Oriented Design, High level Design, Draw.io, RHEL, Docker

Software Engineer, 5G Platform Team

- **Bug Fixes:** Resolved issues in Process Monitor and System Monitor, including date issues in CentOS.
- **Test Case Development:** Added comprehensive test cases for Process Monitor and System Monitor.
- **Integration Testing:** Conducted integration testing of Process Monitor with software upgrades and coordinated rollback tests with the OAM team.
- **Skills:** C/C++, Bash, Python, Linux, CentOS

Think201

Bangalore, Karnataka (Remote)

Software Engineer Intern, Web Application Backend Team

09/2020 - 11/2020

- **Backend Development:** Built the backend of a web application using Node.js.
- **API and Model Design:** Created model schemas and APIs based on specified requirements.
- **Skills:** Node.js, Typescript, PostgreSQL, MongoDB, Express, Swagger, Postman

TECHNICAL SKILLS

Programming Language: Python ◇ Javascript ◇ C/C++ ◇ Java

Web Development: HTML ◇ CSS ◇ Bootstrap ◇ Javascript ◇ ReactJS ◇ Node.js ◇ Django ◇ Express.js

Database management: SQL (MySQL, PostgreSQL) ◇ NoSQL (MongoDB, Cassandra)

Miscellaneous: Git ◇ Docker ◇ AWS ◇ GCP ◇ REST API ◇ Data Structures & Algorithms ◇

Object-Oriented Design ◇ Microservice Architecture ◇ Design Patterns ◇ Web Security

EDUCATION

National Institute of Technology Karnataka

Surathkal, Karnataka

M.Tech(Research) in Computer Science & Engineering - Information Security

08/2019 - 12/2022

Lovely Professional University

Phagwara, Punjab

B.Tech in Computer Science & Engineering

09/2015 - 06/2019

ADDITIONAL PROJECTS

National Institute of Technology Karnataka

Surathkal, Karnataka

Research Scholar, Information Security

12/2020 - 12/2021

- **Research:** Conducted research on network-level mitigation of Mirai malware in IoT.
- **Environment Setup:** Created an isolated environment to demonstrate Mirai malware propagation.
- **Mitigation Implementation:** Implemented a solution to mitigate Mirai malware.
- **Publications:** Published 3 papers on the findings and solutions developed in this project.
- **Skills:** Python, Flask, Mysql, Docker, C, Golang, React.js, IoT, DDoS attacks