

Vineet Singh

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Overview

Software engineer with 5 years of experience in developing and optimizing system software. Skilled in Python, Linux, and C programming with expertise in system programming, debugging, and performance optimization. Passionate about solving complex problems and collaborating in Agile environments.

Skills

- Python (Backend Development)
- Linux Development (Daemon, Udev, Shell Script)
- Data Structure and Algorithm
- C Programming (Debugging)
- Jira, Jenkins, DevOps, Confluence
- Git and GitHub

Experience

Software Engineer, Capgemini – Bengaluru, IN Nov 2022 – Till date

- Developed and maintained system Audio components using C programming and Python.
- Optimized OS-level functionalities including Audio, process management, IPC, and file system interactions.
- Conducted a thorough debugging and performance profiling to improve system stability.
- Actively contributed to Agile workflows, including sprint planning, code reviews, and retrospectives.

Python Developer, TSinfo Technology – BLR, IN Aug 2020 – Oct 2022

- Developed and optimized system utilities and automation scripts using Python for various enterprise use cases.
- Implemented logging, monitoring, and debugging tools to improve system reliability.
- Assisted in the implementation of OS-level features, enhancing system performance and usability.
- Technical documentation

Support Engineer, IQOR + Teleperformance, IN Feb 2018 – July 2019

Initially, worked as a support engineer for Symantec Antivirus, Hewlett Packard, and FedEx.

Projects

DELL ThinOS Dell ThinOS

- Contributed in the migration from base os Ubuntu 22.04 to 24.04
- Addressed audio issues including Bluetooth, Jack and USB headsets
- Implemented blacklisting and whitelisting of USB devices to enhance security protocols. Technologies used: Udev, C, Python, File Systems, Alsa, PulseAudio

Dell Hybrid Client Dell Hybrid Client

- Integrated a robust audio server to improve system-wide audio handling and reliability.
- Audio Server Migration PipeWire -> PulseAudio
- Tools Used: Python, Linux, C Programming

Education

Chandigarh University, Master of Computer Application Aug 2019 – July 2022

- GPA: 7.5/10.0
- **Coursework:** Machine Learning, Data Structures and Algorithms, Computational Theory