SUBASISH BHATTA

Bengaluru, India

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PROFESSIONAL SUMMARY

C++ Software Developer with 4.4+ years of experience optimizing large-scale router software for Google's networking platforms. Expert in Linux internals, system performance tuning, and fleet-wide diagnostics. Proven track record of resolving critical daemon crashes, reducing CPU usage by 35%, and driving data-informed analysis across massive device fleets.

EXPERIENCE

Capgemini Engineering (Client: Google)　　　　　　　　　　　　　　　　　July 2021 – Present
Professional II Engineer　　　　　　　　　　　　　　　　　　　　　　　　*Bengaluru, India*

- Designed and optimized router system components for Google's networking platforms, focusing on high-performance C++ development and Linux system internals.
- **Performance Optimization:** Delivered a critical fix for a daemon issue that reduced CPU usage by **35%** across the entire router fleet, significantly extending device longevity and performance.
- **System Stability:** Resolved high-impact networking daemon crashes and major bugs throughout the year, directly improving fleet reliability and uptime metrics.
- **Development Throughput:** Demonstrated strong productivity with **70+ CLs**, **4000+ LOC**, and **65+ bug fixes** annually, consistently contributing impactful changes across multiple releases.
- Implemented **WiFi 7 support** for mesh architecture on prplOS, ensuring compatibility with next-generation networking standards.
- Developed diagnostic tooling and cloud-integrated dashboards to enhance real-time fleet observability, enabling faster issue detection and resolution.
- Enhanced telemetry pipelines to facilitate fleet-wide analytics, providing data-driven insights for system improvements.
- Mentored new engineers, led debugging sessions, and collaborated closely with QA to prepare private builds and ensure release quality.

TECHNICAL SKILLS

Languages: C, C++, Python, SQL (MySQL), Bash Shell Scripting
Networking Protocols: TCP/IP, UDP, DNS, DHCP, Ethernet, WiFi 7, Mesh Networking
Tools & Platforms: Git, Gerrit, Jenkins, Buganizer, Critique, Linux
Frameworks & Cloud: GTest, Unit Testing, Google Cloud Platform (GCP)

EDUCATION

Indian Institute of Technology (IIT), Dhanbad　　　　　　　　　　　　　　　　　2020
M.Tech in Computer Science (Information Security) – CGPA: 7.1　　　　　　　*Dhanbad, India*
Government College of Engineering, Keonjhar　　　　　　　　　　　　　　　　　2015
B.Tech in Electrical Engineering – CGPA: 8.0　　　　　　　　　　　　　　　　*Odisha, India*

TECHNICAL TALKS & LEADERSHIP

Guest Networking and Port Forwarding | *Google Office, Taiwan*　　　　　　　March 2024
- Delivered a comprehensive technical seminar to engineering teams on guest networking architecture and port forwarding security.

Bridge and NAT Modes on Routers | *Capgemini Engineering*　　　　　　　　　Aug 2023
- Presented an in-depth session on Network Address Translation (NAT) and Bridge modes, enhancing the team's understanding of router configurations.