Vivek Jami

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INTRODUCTION

Experienced Software Engineer with expertise in Linux kernel, embedded systems, virtualization, and containerization. Strong background in low-level system programming, security hardening, and performance optimization. Passionate about open-source development and high-performance computing.

TECHNICAL SKILLS

- Languages: C, C++, Rust, Go, Python, Bash, TypeScript
- Embedded Systems: Yocto, U-Boot, Real-time OS (RTOS), Device Drivers
- Linux Development: Kernel modules, eBPF, Systemd, Secure Boot, SELinux, AppArmor
- Virtualization Containers: KVM, QEMU, LXC, Docker, Podman
- Full-Stack Development: React, Node.js, GCP
- Networking: TCP/IP stack, Netfilter, iptables, eBPF, WireGuard
- Debugging Optimization: GDB, perf, ftrace, Valgrind, strace
- Open-Source Contributions: Linux kernel patches, Debian package maintenance

EXPERIENCE

Software Development Engineer (SDE) — Jan 2024 – Jan 2025
Rompit Technologies — *In-person*

- Enhanced product functionality through full-stack development using **TypeScript**, **React**, and **Node.js**.
- Led a team of 6 developers to deliver high-quality, scalable software solutions, ensuring timely project execution and meeting key business objectives.
- Deployed and managed applications on **GCP**, ensuring scalability and high availability.
- Refactored the codebase for improved performance and maintainability, streamlining internal processes.

Virtual Reality (VR) Developer Intern — Jul 2023 – Aug 2023
Centre of Excellence in Maritime and Shipbuilding (CEMS) — *In-person*

- Developed AR/VR applications using **Unity**, incorporating **C++** for optimized rendering.
- Created 3D models in **Blender** and explored advanced features in **Unreal Engine**.
- Prototyped VR solutions tailored to maritime use cases, enhancing user engagement and interactivity.

EDUCATION

GMR Institute of Technology — Rajam, India
B.Tech in Computer Science and Engineering — *2021 – 2025*
CGPA: 8.5/10.0

PROJECTS

LunaCred | Github Link — Sep 2024 - Nov 2024

- **TechStack**: Solidity, Rust, Polkadot
- Developed a **Referral-Based Credibility Staking Protocol** incentivizing honest referrals with dynamic rewards or penalties.
- Built and deployed **smart contracts** using Solidity and Rust, ensuring scalability and transparency on the blockchain.
- Selected as a **finalist project in the OneBlock+ Polkadot Hackathon**, presenting at a live pitch event in **Bangkok**.
- Implemented robust logic for credibility scoring, fostering a trust-centric ecosystem.

RollRush | Github Link — May 2024 – Sep 2024

- **TechStack**: Solidity, React, Babylon.js, Dymension Chain
- Developed a decentralized gaming platform with seamless user authentication via **Capsule login** and **MetaMask**.
- Implemented **Solidity-based smart contracts** for casino games, including **Roulette**, **Slot Game**, and **Magnetic Chess**.
- Won the **RollAppDraft Hackathon**, recognizing the project as an innovative solution in decentralized gaming.

- Selected for the **Encode Club** incubator program, providing mentorship and resources to further develop and scale the platform.
- Utilized **Babylon.js** for 3D game rendering, creating an immersive user experience.

VerifED AI | <u>Github Link</u>   Jun 2024 – Jul 2024
- **TechStack**: ICP Network, React, Node.js, Motoko, WebSockets
- Built a decentralized educational and certification platform with AI-powered proctoring to ensure tamper-proof certification issuance stored on the blockchain.
- Utilized the **ICP network** to securely store and manage certificates, ensuring immutability and transparency.
- Developed a **WebSocket server** in **Node.js** for real-time AI proctoring.
- Implemented a responsive frontend with **React**, optimizing user experience and accessibility.

ACHIEVEMENTS

- Won **2nd Prize** in the **Global Hackathon (Encode)**, showcasing expertise in blockchain development.
- Secured **3rd Prize** in the **Solana Hackathon**, demonstrating innovative solutions on the Solana blockchain.
- Presented a project in the prestigious **Encode Incubator**, highlighting strong pitching and technical skills.
- Recognized by the **ICP community** for innovative contributions to decentralized education platforms.

CERTIFICATIONS

- **Linux and Bash for Data Engineering** | **Pragmatic AI Labs** | Issued Nov 2024
  Credential ID: a700f7ba27e24332903936bcf7981697
- **Rust Fundamentals** | **Pragmatic AI Labs** | Issued Nov 2024
  Credential ID: c6e6e6dbb22740c9b82d6f5574481fce
- **SQL (Intermediate)** | **HackerRank** | Issued Oct 2023
  Credential ID: 2AA9F10C1AD1
  Skills: SQL
- **Supervised Machine Learning: Regression and Classification** | **DeepLearning.AI** | Issued Oct 2023
  Credential ID: FR3PNN5ZRWWQ
  Skills: Artificial Intelligence (AI), Machine Learning
- **Operating Systems and You: Becoming a Power User** | **Google** | Issued Jul 2023
  Credential ID: 3J463E3XY2ZR
- **Google Cloud Big Data and Machine Learning Fundamentals** | **Google Cloud** | Issued Jun 2023
  Credential ID: 8UY49CKCFS9B
  Skills: Google Cloud Platform (GCP), Google BigQuery
- **Palo Alto Networks Cybersecurity** | **Palo Alto Networks** | Issued Jun 2023
  Credential ID: HGFD7CKXEFK3
- **Microsoft Certified: Azure Fundamentals** | **Microsoft** | Issued May 2023
  Skills: Microsoft Azure, Cloud Storage, Cloud Services
- **Cloud Computing** | **NPTEL** | Completed with Elite
  Skills: Cloud Architecture, Virtualization
- **Business Analytics** | **NPTEL** | Completed with Elite
  Skills: Data Analysis, Business Insights
- **Data Structures and Algorithms in Java** | **NPTEL** | Completed with Elite
  Skills: Java, Algorithm Optimization