Akshat Pandey

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PROFESSIONAL EXPERIENCE

Flutter Developer Intern   June 2023 – July 2023
Steel Authority of India Limited   *Bhilai, India*

- Led the end-to-end development of a cutting-edge mobile app leveraging **Flutter** and **Node.js**, optimizing for both **iOS** and **Android** platforms. Seamlessly integrated **OracleDB** with the **MES** department, resulting in a 40% boost in real-time data access and a 30% increase in operational efficiency. Streamlined manufacturing processes for enhanced productivity.
- Collaborated cross-functionally with back-end developers, designers, and interdisciplinary teams to deliver high-quality solutions.

Research and Development Intern   June 2022 – Aug. 2022
Defence Research and Development Organisation   *New Delhi, India*

- Pioneered terrain exploration using cutting-edge technologies such as **QGIS** and **Python**. Achieved a remarkable 20% increase in the efficiency of identifying ridges and spurs from **DEM** data, elevating geospatial insights and streamlining terrain assessment.

PROJECTS

ShieldBuntu ↗ | *React-Tauri, Rust, Bash*   December 2023 – January 2024

- Developed a comprehensive **Ubuntu security hardening solution** named **ShieldBuntu**, streamlining the process through **one-click automation**.
- Designed and implemented **Tauri-based GUI** for user-friendly interaction, backed by a secure Rust backend to execute **CIS benchmark-aligned shell scripts**, enhancing system security at different levels.

HeadTogether ↗ | *React-Capacitor, FastAPI, MySQL*   November 2023 – January 2024

- Guided a dynamic team in crafting **HeadTogether**, an Android and web solution linking solo travelers based on shared interests.
- Empowered users to forge connections by creating public rooms for travel and various activities, fostering vibrant community engagement.

MeshHawk ↗ | *React, FastAPI, Firebase, Bash*   June 2023 – October 2023

- **Proactively identified and reported** potential security threats posed by malicious apps creating nearby Mesh Networks, contributing to network security enhancement.
- **Published a research paper** ↗ on this pioneering work, advancing knowledge in network security and showcasing expertise in a critical domain.

TECHNICAL SKILLS

- **Languages**: Bash, Python, Dart, C/C++, SQL
- **Frameworks**: Flutter, FastAPI, Django, Flask
- **Developer Tools**: Linux, Git, GitHub, Google Cloud Platform, Wireshark, Firebase

EDUCATION

Bhilai Institute of Technology   Durg, India
Bachelor of Technology in Computer Science – CPI - 9.73   *Aug. 2020 – May 2024*

Delhi Public School   Bhilai, India
Science + Computer Science – CBSE - 95 Percent   *April 2018 – March 2020*

ACHIEVEMENTS

KAVACH'23: Winner of the inaugural nationwide KAVACH'23 cybersecurity hackathon organized by the Government of India.

Smart India Hackathon'22 '23: Grand Finalist of the Smart India Hackathon 2022 and 2023, a nationwide hackathon organized by the Government of India.