SOHAN CHHANGANI

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Education

Thakur College of Engineering and Technology	**Aug. 2019 – June 2023**
Bachelor of Engineering in Electronics and Telecommunication, CGPA: 7.42	*Mumbai, Maharashtra*
Mithibai College	**Aug. 2017 – May 2019**
HSC in Science with Electronics, 67.08%	*Mumbai, Maharashtra*

Summary

Motivated professional skilled in embedded systems, Android OS development, and application creation. Proficient in C/C++, Java, and Bash scripting, with expertise in working with platforms like Raspberry Pi, Arduino, and Rockchip. Aspiring to contribute to impactful projects in a mid-entry role while maintaining a balanced lifestyle.

Experience

Trunexa — **Sep. 2023 – Present**
Embedded Engineer — *Mumbai, India*

- **Payment Integration**: Developed Android L3 payment applications for ticket validators and EV chargers, enabling secure transactions via ZMQ and HTTPS curl. Ensured compliance with PCI DSS guidelines.
- **Ticket Validator Project**: Conducted PCB electrical verification and identified a resistance error. Configured the Android kernel and added packages to support 4G, GPS, QR, and NFC functionalities. Developed demo applications for NFC card readers and QR scanners.
- **EDGE Computing Project**: Analyzed processor capabilities for edge computing. Created Bash test scripts to validate the entire EDGE system before client delivery.

Sahu Technology — **Nov. 2022 – Jan. 2023**
Python Developer Intern — *Mumbai, India*

- Automated data processing using Python scripts, reducing manual effort by 30%.

Projects

Advanced Pedestrian Safety System | Raspberry Pi, OpenCV — **Mar. 2023**

- Created a system using Raspberry Pi and OpenCV for real-time pedestrian detection, reducing road accidents.

Home Automation System | Arduino — **Oct. 2022**

- Designed a smart home system with Arduino to remotely control appliances via smartphone.

Technical Skills

Programming Languages: C, C++, Java, Bash
Technologies: Yocto, Android 11, Raspberry Pi, NFC readers, GPS, 4G modules
Tools: GitHub, Android Studio, VS Code, Eclipse

Certifications

- Introduction to IoT Embedded Systems
- The Arduino Platform and C Programming
- Crash Course on Python
- Android Studio Basics
- Introduction to Linux Kernel

Leadership and Achievements

- **NSS Volunteer (2019–2021)**: Participated in community initiatives, blood donation drives, and rural development projects.