Seba Parackal

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Technical Skills

Programming Languages:

- Python, C, C++, C#, MySQL, JavaScript, HTML/CSS, R, PHP

Frameworks and libraries:

- Flask, Bootstrap, TensorFlow, MatPlotlib, Chart, JavaScript, Jinja2, Werkzeug

Tools/Databases

- MySQL, NoSQL, MariaDB, SQL Alchemy, SQLite, Pipenv/venv, Power BI, Git, Figma, Microsoft Office Suite (Excel, Outlook, Word, PowerPoint), Notion, Canva, Shell Programming

Education

Wilfrid Laurier University

Honours BSc Computer Science

- Relevant Coursework: Internet Computing, Computer Networks, System Programming, Data Structures and Algorithms, Object-Oriented Programming, Linear Algebra, Discrete Structures, Artificial Intelligence, Digital Electronics, Introduction to Microprocessors, Software Engineering, Databases, Calculus

Good Shepherd Public School

Senior school certificate

- Specialization in Computer Science- Python, MySQL

Project Experience

Remote Shell

- Developed a secure, browser-based Linux terminal using Flask, WebSockets, and Cloudflare Tunnel, featuring SSH style login with bcrypt authentication. Designed for personal server access, it supports real-time command execution, isolated sessions, and simple deployment from any device, anywhere around the world access to a web browser, for lightweight remote management.

LFS4CS (Linux from Scratch for Computer Science Students)

- Developing a custom Linux distribution for CS students and beginners. Originally built using Linux from Scratch but later redesigned with a Debian base due to stability issues. Features include a simplified UI, integrated GenAI tools, pre-installed programming packages (Python, C, SQL), and beginner-friendly terminal commands. Currently in Phase 1 VM testing to resolve early bugs and optimize for low-spec hardware.

Smart Finance Tracker

- Built a Smart Finance Tracker using Flask for backend and MySQL for secure data storage. The frontend, designed with HTML, CSS, Bootstrap, and Jinja2, offers a responsive and interactive user experience. Added spending trends and category breakdowns using Chart.js for easy data visualization. Included features like adjustable budget priorities and personalized insights to help users track and improve their finances.

Leadership and volunteering

- **Director Of Education:** CaseHacks
- **Volunteer/Organizer:** TechNova Hackathon 2024
- **Member:** Laurier Computer Science Club, Wilfrid Laurier University
- **Member**: Laurier Women In Computer Science, Wilfrid Laurier University.