NILAY VATSAL

Hyderabad, Telangana

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EDUCATION

International Institute of Information Technology, Hyderabad   **August 2024 – June 2026**
M.Tech. in Computer Science and Information Security   *Hyderabad, India*

Bharati Vidyapeeth(DU) Department of Engineering and Technology   **Nov 2020 - June 2024**
*Computer Science and Engineering (B.Tech) - **CGPA - 9.33***   *Mumbai, Maharashtra*

Experience

Finzie by Samwaad   **July 2023 - August 2023**
Software Developer Intern   *Remote*

- Implemented prototype's backend system using Flask, capable of supporting up to 100 concurrent users.
- Updated database models and increased efficiency of queries by 30%.
- Improved authentication by using Flask Session modules and reduced login faults by 50%.

PROJECTS

Nimble Shell | C++   **August 2024**

- Implemented a UNIX shell from scratch in C++ with core functionalities.
- Developed features including command history, process management, I/O redirection, and piping.
- Designed a modular architecture to handle complex user inputs, ensuring robust error handling and signal management.

Skill Sync | Java, Android Studio, SQLite   **March 2024**

- Developed an Android app for students to take quiz, receive course recommendations, connect with alumni.
- Implemented RecyclerView for efficient display and management of dynamic content.
- Integrated SQLite for local database management, ensuring efficient data storage and retrieval.
- Designed intuitive user interfaces using XML to enhance user experience.

Grocery Store App | Flask, Flask - Restful, Flask-SQLAlchemy, SQLite3   **April 2023**

- Architected a web application using Flask that offers users the ability to add as well as purchase products. Application supports 2 roles, Users and Admins.
- Implemented a secure login system using Flask sessions module, reduced authentication error by 70 %
- Utilized SQLite3 and Flask-SQLAlchemy . Query time reduced by 30%
- Developed a RESTful API, utilizing Flask-RESTful to facilitate CRUD operations on product data.

TECHNICAL SKILLS

C/C++, Python, Java, SQL, HTML5/CSS, Git/Github, Linux, Flask, OOPS, OS, DBMS, Android Studio

ACHIEVEMENTS

GATE Exam

- GATE 2024 - 98.5 percentile 🔗
- GATE 2023 - 96.5 percentile 🔗

Competitive Programming

- Pupil at Codeforces (Max rating: 1322) 🔗
- 3 Star at Codechef (max rating: 1686) 🔗