Mayank Sekhri

SOFTWARE ENGINEER

CONTACT

+91 62844-94658
sekhrimayank2@gmail.com
https://www.linkedin.com/in/mayank-sekhri-885ba5295/

EDUCAT ION

Bachelor of Engineering (B.E.) in Computer Science and Engineering (C.S.E.)
Chitkara University, Punjab
2023 - 27 | SGPA: 9.3

XII (Senior Secondary): *2023 | 84.8%*
Apollo Public School Patiala,147001

X (Secondary): *2021 | 91.7%*
St.Peter's Academy, Patiala,147001

SKILLS

Programming Languages

- Rust - proficient
- Python (typed) - proficient
- C/C++ – intermediate
- HTML, CSS & JS
- SQL

Tech Stack

- PIP, Cargo & CMake
- MySQL
- Vite, Node, NPM & ReactJS
- VCS: Git & GitHub
- Linux: Bash Scripting
- WSL & VMs
- Electron
- DSA

Miscellaneous

- RESTful API
- Object Oriented Programming
- Cloud + VPS, SSL/TLS, DNS
- SSH & VPN Tunneling

OTHER SKILLS

- Communication
- Leadership
- Time Management
- Collaboration

LANGUAGES KNOWN

- English - proficient
- Hindi - native

EXPERIENCE

Igumnoff: An Opensource Dev Group – Junior Developer

April 2024 – September 2024

- Currently developing **Shiva**, a Rust-based **CLI** and Library.
- Implemented features for CSV parsing and generation, enhanced HTML parsing, and developed PDF hyperlink generation with advanced layering techniques.

PROJECTS

Garuda: Location **Monitoring**, **Tracking** and **SOS** System – Closed Sources

- Uses **ESP32** and NEO6M for Location **Data Collection**.
- Self-written **API** in Python (using **Flask**) for data processing.
- Uses **LeafLet (OpenStreet) Maps** to display location history.

Shiva: A Universal **Document Parser** and **Generator** – Source Code

- Adheres to the **Common Document Model** (CDM) for uniform handling of various document types.
- Designed such that parsers output to CDM and generators input from CDM.

LinAlg: A **Python Wrapper** for Vectra Using **PyO3** bindings – Source Code

- Provides a user-friendly interface primarily aimed at non-data-scientific applications.

Vectra: A Linear Algebra library written in **Rust** – Source Code

- Supports a range of mathematical structures and operations including polynomials, matrices, vectors, logarithms, and angle types.
- Future development plans include creating a parser and evaluator using the **Shunting Yard Algorithm**.

AWARDS AN D ACHIEVEMENTS

- Served as a presenter in a student-led C programming campaign, educating over 20 students in the C programming language.

Mayank Sekhri

S O F T W A R E E N G I N E E R

PROFILES

- github.com/bilakshanp
- t.me/redditard
- bilakshan.dev (blog + portfolio)

CERTIFICATIONS

- [Introductory C Programming](#) – Duke University
- [Game Design: Art and Concepts](#) – CalARTS
- [Introduction to Blockchain Technologies](#) – INSEAD
- [Introduction to Blockchain for Financial Services](#) – INSEAD
- [Blockchain Scalability and its Foundation in Distributed Systems](#) – The University of Sydney
- [Design Thinking](#) – University of Virginia
- [The Arts and Science of Relationships](#): Understanding Human Needs – University of Toronto