

# BILAKSHAN PUROHIT

SOFTWARE ENGINEER

## CONTACT

[REDACTED]

## EDUCATION

**Bachelor of Engineering (B.E.) in Computer Science and Engineering (C.S.E.)**  
2023 - 27 | CGPA: 9.5

**XII (Senior Secondary): 2023 | 88.8%**  
D.A.V.P.S

**X (Secondary): 2021 | 89.7%**  
R.M.P.S

## SKILLS

### Programming Languages

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

### Tech Stack

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

### Miscellaneous

- RESTful API
- Object Oriented Programming
- Data Structures and Algorithms

## OTHER SKILLS

- Communication
- Leadership
- Time Management
- Collaboration

## LANGUAGES KNOWN

- English - proficient
- Hindi - native

## EXPERIENCE

**Igumnoff:** An Opensource Dev Group – Junior Developer

April 2024 – Present

- 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.

**DevsExpo:** An Opensource Dev Group – Junior Developer

January 2021 – March 2022

- Developed and maintained a user-pluggable bot designed to interface with Telegram's API via Pyrogram, simplifying account-related tasks and various automation processes.

## PROJECTS

**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**.

**Rust Scripts:** A repository of Algorithms and Scripts in Rust – [Source Code](#)

- Features a collection of algorithms and utilities authored in pure Rust, including RSA, SHA-2, SHA-3 (Keccak), Shake 128, and a Base64 converter.

**SketchX:** A Core for Telegram Userbots using Pyrogram – [Source Code](#)

**Tribute Page:** A Website Created for a University Competition – [Source Code](#)

## AWARDS AND ACHIEVEMENTS

**Excellent Programmer:** Nominated by the Dean of C.S.E, 15<sup>th</sup> May 2024

**Dean's List:** Recognized on 22<sup>nd</sup> April 2024

- Earned a place on the prestigious Dean's List for academic excellence.
- Served as a presenter in a student-led C programming campaign, educating over 20 students in the C programming language.

# BILAKSHAN PUROHIT

SOFTWARE ENGINEER

---

## PROFILES

---

- [github.com/bilakshanp](https://github.com/bilakshanp)
- [t.me/redditar](https://t.me/redditar)

## 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