





Bhavik Sachdev

8319336255 | b.sachdev1904@gmail.com | bhavik22100@iiitnr.edu.in | linkedin.com/in/bsach64 | github.com/bsach64











EDUCATION

International Institute of Information Technology, Naya Raipur <i>Bachelor of Technology in Computer Science</i>	CGPA: 9.00 <i>Nov. 2022 – May 2026</i>
Delhi Public School, Raipur <i>Senior Secondary School</i>	92.6% <i>2022</i>

OPEN SOURCE EXPERIENCE

Google Summer of Code 2024: CRIU 	May 2024 – Present
<ul style="list-style-type: none">Working on adding support for pidfd file descriptors in CRIU (Draft PR )Improved CRIU's ZDTM test suite by differentiating between dump failures and dump crashes 	
Minor contributions to sympy 	

PROJECTS

cmonkey [WIP]  <i>C, Interpreters</i> <ul style="list-style-type: none">Includes a fully working lexer and REPL for the monkey programming language Implements a custom hash table using linear probing for the interpreter
pretty-toggl: CLI for Toggl Track  <i>Go, CLI, Cobra, bubbletea</i> <ul style="list-style-type: none">Implements functionality for starting, stopping and viewing time entries using the Toggl Track API Uses the Cobra library  to implement a CLI along with a terminal form  for user input
bhshell  <i>C, linux</i> <ul style="list-style-type: none">Constructed a simple shell from scratch complete with output redirection to file (or stdout) and the ability to pipe to another commandDemonstrated proficiency in Linux processes, effectively forking multiple processes and facilitating communication between them using pipes
Blog Aggregator  <i>Go, postgres</i> <ul style="list-style-type: none">Developed a RestfulAPI for an RSS Aggregator ApplicationSupports User Creation/Deletion, Adding/Deleting Feeds, Fetch all of the latest posts from RSS feeds a user follows, user specific endpoints require authentication headersWrote a scraper which works in the background to fetch any new feed entries for all blog in the database which runs periodically (runs in a separate goroutine)
Wordy: A Wordle Solver  <i>Python, Information Theory</i> <ul style="list-style-type: none">Developed a 5, 6, 7 letter wordle  solver along with a CLI to use the solverUsed Information Theory and entropy to develop an algorithm for the next best guessSolver can guess a 5 letter word under 4 tries, 6 and 7 letter words in 3 tries

TECHNICAL SKILLS

Languages: C, Python, Go, SQL (SQLite, PostgreSQL), JavaScript
Technologies: Git, MakeFile, Linux, Protocol Buffers, Neovim (config )
Relevant Coursework: OS - I, OS - II, DBMS - I, DBMS - II, Data Structures, Design and Analysis of Algorithms, Data Communication, Computer Networks, Computer Organisation, Computer Architecture, Machine Learning, Software Engineering
Online Courses: CS50x , CS50 Python 