

Bhavik Sachdev

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EDUCATION

International Institute of Information Technology, Naya Raipur <i>Bachelor of Technology in Computer Science</i>	CGPA: 9.08 <i>Nov. 2022 – May 2026</i>
Delhi Public School, Raipur <i>Senior Secondary School</i>	92.6% <i>2022</i>

EXPERIENCE

Backend Intern: Fam (FamPay) ↗ <i>Django, Go, SQL, Kafka</i>	Feb 2025 – Present
<ul style="list-style-type: none">• Migrating SMS delivery from a Python monolith to a Golang-based notification microservice• Developing a templating engine to manage notification templates and provider details, enabling faster and more flexible message delivery.• Add support for reversing digigold transactions in the Python monolith, helping solve support tickets.	
Google Summer of Code 2024: CRIU ↗ <i>C, linux</i>	May 2024 – Aug 2024
<ul style="list-style-type: none">• CRIU (Checkpoint/Restore in Userspace) allows you to stop a running application, save its state to disk and restart it using that data.• Worked on adding support for pidfd file descriptors in CRIU (Work Report ↗)• Improved CRIU's ZDTM test suite by differentiating between dump failures and dump crashes ↗	

PROJECTS

pretty-toggl: CLI for Toggl Track [↗](#) | *Go, CLI, Cobra, bubbletea*

- 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 [↗](#) | *C, linux*

- Constructed a simple **shell** from scratch complete with **output redirection** to file (or stdout) and the ability to **pipe** to another command. Demonstrates proficiency in Linux processes.

Blog Aggregator [↗](#) | *Go, postgres*

- Developed a **RestfulAPI** for an RSS Aggregator Application
- Supports User Creation/Deletion, Adding/Deleting Feeds, Fetch all of the latest posts from RSS feeds a user follows, user specific end points require authentication headers
- Wrote a periodically running **scraper** that updates the news feed with new posts.

Wordy: A Wordle Solver [↗](#) | *Python, Information Theory*

- Developed a 5, 6, 7 letter wordle [↗](#) solver along with a **CLI** to use the solver
- Solver can guess a 5 letter word **under 4 tries**, 6 and 7 letter words in 3 tries
- Used **Information Theory** and **entropy** to develop an algorithm for the next best guess

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 [↗](#)