

Bhavik Sachdev

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EDUCATION

International Institute of Information Technology, Naya Raipur <i>Bachelor of Technology in Computer Science</i>	CGPA: 9.03
	<i>Nov. 2022 – May 2026</i>
Delhi Public School, Raipur <i>Senior Secondary School</i>	92.6%
	<i>2022</i>

EXPERIENCE

Google Summer of Code 2025: CRIU <i>C, linux kernel</i>	May 2025 – Nov 2025
<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.• Working on adding support for files on mounts unmounted using MNT_DETACH. PR ↗ Work Report ↗• Modifying the statmount syscall in the Linux Kernel to export mountinfo for "unmounted" mounts ↗	
Backend Intern: Fam (FamPay) <i>Django, Go, SQL, Kafka</i>	Feb 2025 – Aug 2025
<ul style="list-style-type: none">• Migrated out SMS delivery from a Python monolith to a Golang-based Kafka driven notification microservice, entirely removing database calls.• Developed a templating engine to manage notification templates and provider details, enabling faster and more flexible message delivery.• Migrated out a high-traffic FCM token update API end point, from the python to go microservice which serves 800 requests/second.• Added support for reversing gold 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">• 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

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 command. Demonstrates proficiency in Linux processes.
Blog Aggregator <i>Go, postgres</i>	<ul style="list-style-type: none">• 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 <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 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, MySQL), JavaScript
Technologies: Git, Makefile, Linux, Kafka, Django, Protocol Buffers, Neovim, Linux Kernel (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 ↗