

BHAVYA VASHISHT

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EDUCATION

Thapar Institute Of Engineering and Technology <i>Bachelor of Engineering in Electronics and Communication Engineering</i> CGPA: 8.79	Patiala 2022 – 2026
Shalom Hills International School <i>CLASS XII (PCM with CS) CBSE 95.8%</i>	Gurugram 2020 – 2021
Shalom Hills International School <i>CLASS X CBSE 96.33%</i>	Gurugram 2018 – 2019

SKILLS

Languages: Go, Python, C
Databases & Tools: PostgreSQL, SQLC, Goose,
Frameworks & Libraries: database/sql, bcrypt, JWT
Developer Tools: Git, VS Code, Jupyter Notebook
Coursework: Object-Oriented Programming, Data Structures and Algorithms, Database Management Systems, Computer Architecture, Artificial Intelligence
Certifications: HTTP Clients in Go, Learn Linux, Learn OOP in Python, Learn Go

PROJECTS

Chirpy <i>Go, PostgreSQL, JWT, SQLC, Goose</i>	GitHub
<ul style="list-style-type: none">– Built a REST API in Go for a micro-blogging platform with user auth, session handling, and chirp posting.– Implemented JWT auth, bcrypt hashing, and middleware for logging, validation, and error recovery.– Added Chirpy Red via webhooks to process premium subscription updates.– Designed a PostgreSQL schema with SQLC + Goose, using 5 migrations and 20 + queries.– Tested 10 API endpoints over 200 + requests to verify consistent and correct responses.	
Gator <i>Go, PostgreSQL, RSS/Atom, SQLC, Goose</i>	GitHub
<ul style="list-style-type: none">– Built a CLI-based RSS/Atom feed aggregator in Go to fetch, parse, and persist content from 20+ online feeds.– Implemented 10+ CLI commands for user registration, feed following, and browsing aggregated posts.– Used PostgreSQL with SQLC and Goose to define 4+ migrations and 12 type-safe SQL queries for persistence.– Designed a ticker-based feed fetcher leveraging Go's concurrency primitives to periodically aggregate 500+ posts without duplication.	
AI Agent CLI <i>Python, Gemini API, Function Calling</i>	GitHub
<ul style="list-style-type: none">– Built a CLI AI agent in Python using the Gemini API to analyze, modify, and execute local Python code.– Designed a modular function-calling system with 5 tools for file I/O, code editing, and test execution.– Implemented a plan-act-observe loop capped at 5 iterations with structured error handling for safe runs.– Tested on 8 Python debugging tasks, averaging 2–3 s/iteration and achieving 80 % successful fixes.	
Smart Food Waste Management System <i>Raspberry Pi, IoT, Computer Vision, Firebase</i>	Capstone
<ul style="list-style-type: none">– Built a Raspberry Pi system with dual cameras and HX711 Load cell for automated face and food recognition to monitor and weigh mess food waste.– Trained a HOG face recognition model (95% accuracy) and a YOLOv11 food recognition model on an 8 k-image custom made dataset (88% mAP).– Linked models to a Firebase app via REST APIs for real-time inference, data logging, and analytics.– Processed 500 + meal samples, yielding insights indicating a 15–20 % waste reduction.	

ACTIVITIES

ACM Thapar Chapter

Member

- Initiated a mentorship program connecting 10+ senior ACM members with juniors to strengthen the society's learning ecosystem.