Dilshan Gulati

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EDUCATION

Siam University, International College Bangkok, Thailand
Bachelor of Science in Information Technology *Expected 2027*

- Relevant coursework: Data Communications and Networking, Operating Systems, Computer Architecture

GED
Earlier schooling: Guru Harkrishan Public School (CBSE)

EXPERIENCE

Software Development Intern June 2025
Shini Software Solution *1 month*

- Worked on Python and Java tasks alongside the development team.
- Tested and debugged code with the team.

PROJECTS

Velos | *Python, FastAPI, WebSockets, Ollama, faster-whisper, WebRTC, Tailscale* 2026

- Built a voice assistant that controls my Windows PC, with a custom wake word, local speech-to-text and a local language model (Qwen3 4B) running on an AMD GPU.
- Reduced command response time from 25 s to 1.8 s by keeping the model loaded and speaking replies sentence by sentence.
- Added a phone app over a private Tailscale network, including a WebRTC remote desktop; covered the system with 877 automated tests.

Rigsmith | *JavaScript, Three.js* rigpc.netlify.app

- Built a 3D PC builder with 342 real parts and 8 compatibility checks that run on every selection.
- Cut mobile load time (LCP) from 4.4 s to 2.7 s and reached a Lighthouse accessibility score of 100.

Kafé Bangkok | *JavaScript, Leaflet, OpenStreetMap* kafebangkok.netlify.app

- Built a café finder that ranks 631 Bangkok cafés by mood and must-haves, with an English and Thai interface and a rule-based chat assistant.

Metro Buddy | *JavaScript, SVG* metro-buddy.netlify.app

- Implemented Dijkstra routing across Bangkok's 10 rail lines and 195 stations, including transfer time and fares by operator; 86 automated tests.

Whispers of the River | *Godot 4, GDScript* Game jam winner, 2026

- Co-developed a first-person horror game with one teammate in about a week; handled game design and programming.

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, C#, GDScript, SQL, HTML/CSS
Frameworks and libraries: FastAPI, WebSockets, WebRTC, Three.js, Leaflet, Godot
Tools: Git, GitHub, Netlify, VS Code, Ollama, Tailscale, Claude Code
Networking: IP addressing, subnetting, OSI model, routing, Cisco Packet Tracer
Spoken languages: English, Hindi, Punjabi