

# Darsh Gandhi

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## Summary

Third-year Software Engineering student at the University of Canterbury, specialising in Python, Java, and C. Experienced in full-stack development, CI/CD automation, and embedded systems programming. Skilled in the software development lifecycle (SDLC), including design, implementation, testing, and deployment. Strong background in building collaborative, data-driven applications, integrating RESTful APIs, and using version control systems for agile team collaboration. Passionate about scalable software design, efficient development workflows, and continuous improvement through peer review and automation.

## Skills

Python, Java, C, React with Tailwind, HTML, CSS, JavaScript, SQL, CI / CD

## Awards

Hiranga Scholarship 2024  
*Awarded to top achieving students top-achieving students commencing an undergraduate degree.*

## Education

University of Canterbury	Feb 2024 - Current
BE(Hons) in Software Engineering - 3 <sup>rd</sup> Year	
Scots College - International Baccalaureate Diploma Programme	2023

## Projects

TakeAHike! (JavaFX, SQL, ArcGIS API)

- Engineered an interactive hiking app integrating real-time elevation data, map filtering, and translation services using ArcGIS API.
- Optimized and structured a SQL database for fast data retrieval.
- Designed an engaging, kid-friendly UI to explore NZ hiking trails.

Two-Player Pong (C, Embedded Systems, IR Communication)

- Programmed a real-time multiplayer Pong game on microcontrollers using infrared communication with encoded data packets.
- Configured GPIO pins to render graphics and ensure <5ms latency between devices sync timers.

Spotify Manager (Python, Spotify API)

- Developed and automated a Spotify automation tool using Spotify's REST API and webhooks to sort and save songs into custom playlists.
- Optimised playlist management by automating monotonous, manual tasks.

## Extracurriculars

Chess Society	Feb 2024 – Current
Computer Society	Feb 2025 – Current
Indian Society	Feb 2025 - Current