


# Harmandeep Singh

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## EDUCATION

### Royal Melbourne Institute of Technology

Melbourne, VIC

*Bachelor in Software Engineering*

*Feb 2023 – Nov 2026*

- Built a strong foundation in software engineering with key courses in Full Stack Development, Algorithms, and Software Testing.
- Gained hands-on experience with modern tech stacks and essential problem-solving skills.

## PROJECTS

### Interactive Maze Generator | *Spigot API, C++*

- Led a project for immersive maze generation within Minecraft using Spigot API and C++.
- Achieved a 25% reduction in solution time with recursive methods.
- Developed a user-friendly console interface with a 4.3/5 user satisfaction rating.

### Nourish Hub | *ReactJS, Node.js, Express.js, MySQL*

[github.com/Harmanhrm/nourish-hub](https://github.com/Harmanhrm/nourish-hub)

- Developed a personalized recipe and shopping website with Edamam API integration.
- Built an admin dashboard using GraphQL for real-time product and review management.

### Algorithmic Teaching Tool | *Python, JavaScript*

[github.com/Harmanhrm/Maze-Visualizer-Learning-Tool](https://github.com/Harmanhrm/Maze-Visualizer-Learning-Tool)

- Created a dynamic tool for visualizing maze generation and solving algorithms.
- Implemented customization for maze parameters and algorithm selection.

### MinimalistLog | *Vue, Node.js, PostgreSQL*

[github.com/Harmanhrm/WorkoutTracker](https://github.com/Harmanhrm/WorkoutTracker)

- Designed a minimalist workout tracker with graphical data visualization for progress tracking.
- Utilized Vue for frontend, Node.js for backend, and PostgreSQL for database management.

### Artboard | *Next.js, TypeScript, Tailwind CSS, Node.js, PostgreSQL*

[github.com/Harmanhrm/Artboard](https://github.com/Harmanhrm/Artboard)

- Developed an open-source design tool with live collaboration and intuitive drag-and-drop interface.
- Used Next.js, TypeScript, and Tailwind CSS for modern, efficient design.

## EXPERIENCE

### Freelance Web Developer

Jan 2024 – Present

*Melbourne, VIC, Australia*

- Assisted individuals in designing and developing websites, focusing on usability and functionality.
- Provided custom coding solutions to improve user experience and address specific needs.

### Crew Member

Feb 2020 – Oct 2021

*Hungry Jacks*

- Managed daily customer interactions, ensuring high satisfaction levels and efficient issue resolution.
- Trained and mentored new crew members, maintaining company standards.

### Soccer Coach

Dec 2022 – Dec 2023



- Organized and supervised 12+ practice sessions and matches weekly.
- Maintained regular communication with parents and provided detailed progress updates.

## TECHNICAL SKILLS

**Languages:** C++, Java, Python, SQL, JavaScript, HTML/CSS

**Frontend Technologies:** ReactJS, Vue.js, Next.js, Tailwind CSS

**Backend Technologies:** Node.js, Express.js, GraphQL, PostgreSQL, MySQL, Sequelize, Flask, FastAPI

**Tools and Platforms:** Visual Studio, Ubuntu, phpMyAdmin, GitHub, npm, Docker, TravisCI, Google Cloud Platform, VS Code, IntelliJ

**Libraries:** pandas, NumPy, Matplotlib

**Other Technologies:** MATLAB, Spigot API, Jira, Excel