Adam Demol

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Education

Certificate CS50x - Harvard Online / EdEx	*03 / 2024 - 04 / 2024*
Diploma Advanced Programming - TAFE NSW	*07 / 2023 - 11 / 2023*
Certificate IV Information Technology - TAFE NSW	*02 / 2023 - 06 / 2023*
Diploma Web Development - TAFE NSW	*02 / 2013 - 11 / 2013*

Skills

Frontend	HTML5, CSS, JavaScript, Typescript, React, Responsive Design
Backend	Django, NextJs, NodeJs, C#, RESTful API's
Databases	MySQL, SQLite3, Firebase, MongoDB, Prisma, Drizzle
Other	Python, Git, Docker, Vercel, Jest, React Testing Library, Nginx

Experience

Harvard Online - CS50x Certificate

- Design complex data structures in C, implement algorithms to solve problems
- Learned about cryptography and hashing by creating a CLI Password Manager
- Developed a mock trading platform with Python's Flask library as a full stack web app

TAFE NSW - Diploma Advanced Programming

- Built a restaurant reservation system in C#, SQL, HTML, CSS and JavaScript
- Worked collaboratively in a remote environment using Microsoft Teams

Woolworths - Nightfill Manager / Duty Manager

- Leading teams of over 20 people, includes mentoring and training team members
- Strong interpersonal and customer service skills

Projects

[Recipe generator app](#) - NextJs, SupaBase, Typescript

- Implemented HTTP streaming with GPT API to create AI-assisted recipes
- Custom REST API design with robust server-side validation
- Jest & React Testing library for unit and integration tests to ensure reliability
- Custom pagination and URL search queries for seamless user navigation

[Spotify clone](#) - React, Javascript

- Deployed a SPA utilising responsive design methods and meets accessibility standards
- Global state management using React context wrapper
- Developed advanced drag & drop functionality, timeline scrubber and volume controls

[Restaurant reservation app](#) - C#, MsSQL, .NET

- Designed RESTful API's with role based access controls for secure admin tools
- User email verification and profile management
- Advanced SQL queries for a robust reservation system, admin tools and timeslots

[Image editor](#) - Javascript, HTML5, CSS

- Improved performance of paint bucket tool by 400%, with custom flood-fill algorithm
- Implemented a powerful undo/redo tool by utilising a stack data structure