NIDHA NUREEN

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EDUCATION

University Of Auckland
BSc in Computer Science

Completion: 2025

SKILLS

- **Programming Languages:** Proficient in Python; experience with C#, Java, JavaScript, and React.js.
- **Web & Frontend Development:** HTML, CSS, Tailwind CSS; experienced with Flask and React.js for web application development.
- **Backend Development & APIs:** Node.js/Express (added and integrated API endpoints), ASP.NET/C#; familiar with API integration and backend logic.
- **Desktop Applications:** Electron — experience developing and testing cross-platform desktop apps.
- **Testing & Automation:** Component testing and end-to-end testing using Cypress.
- **Version Control & Project Management:** Git for version control; Jira/Scrumban for task management and team coordination.
- **Design & Tools:** Figma for UI/UX design and prototyping; experienced with PyCharm, IntelliJ, and VS Code.
- **Databases:** Experienced with SQL and database operations.

PROJECT EXPERIENCE

Deployable AI Software for Animal Re-Identification (CARE) — React, Electron, Node.js, Tailwind, Flask

Full-Stack Developer & UI/UX Lead

- Led the UI/UX redesign of a legacy Electron desktop application, creating the high-fidelity Figma prototype and implementing redesigned interfaces for all three galleries.
- Implemented major image-handling features (grid/list views, pagination, folder tree, multi-selection, thumbnail generation) and optimised performance for 200,000+ images.
- Resolved major legacy issues (EMFILE concurrency crash, broken filtering/selection logic, export bugs) and refactored core components to improve stability and maintainability.
- Integrated frontend with the Node/Electron IPC pipeline and contributed to component testing and large-dataset performance testing.
- Led weekly client meetings, presenting technical progress and translating feedback into development tasks.
- Enhanced overall user experience by redesigning empty states, adding loading animations, and improving workflow clarity through visual hierarchy and HCI-driven design decisions.

Podcast Web App - Flask, SQL, HTML/CSS, Agile

- Collaborated on a podcast web app in a university Agile project; took ownership of Flask backend development, led GitHub collaboration, and supported teammates with debugging and implementation decisions.
- Developed full-stack user authentication using CSRF-protected HTML forms, and built podcast browsing/search page with episode playlist add/remove features.
- Led migration to a SQL database by integrating an ORM layer to map domain models, improving scalability and maintainability.

NZSL Web Application for Beginners - JavaScript, C#, .NET, HTML/CSS

- Built a RESTful API using C# and ASP.NET Core to provide structured access to NZSL signs and event data, forming the backend for the web application.
- Developed a dynamic web application to help beginners learn New Zealand Sign Language (NZSL), using JavaScript, HTML, and CSS for front-end development and consuming the custom REST API.
- Implemented user registration and login functionality, including form validation and client-side management of login state.
- Designed an intuitive user interface with interactive features such as a searchable sign dictionary, event calendar, and a guestbook for user comments.

WORK EXPERIENCE

SEP 2024 - PRESENT

Private Tutor
Self-employed

Privately tutor Year 10 to Year 12 students, supporting their learning across maths and science, helping them develop problem-solving and critical thinking skills. Focus on explaining concepts clearly, building confidence, and guiding independent learning.

FEB 2024 - OCT 2025

East Restaurant, Sudima Hotels
Food and Beverage Assistant

Helped refine skills such as multitasking, problem-solving, and communication. The experience has taught me to manage multiple tasks efficiently, think on my feet to resolve issues quickly, and communicate effectively with team members and customers.