

Diwas Mainali

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EDUCATION

University Of New South Wales

Bachelor of Computer Science

Kensington, NSW, 2033

Jan 2022 – Dec 2025

Relevant Coursework:

- Software Construction — Backend Development — Data Structures and Algorithms — Computer Systems

WORK EXPERIENCE

Web Development

USYD Labs

March 2024 – Present

Sydney, Australia

- Developed a responsive and user-friendly website using React and Tailwind CSS to showcase the lab's team members and their respective roles
- Implemented a news section to showcase the latest developments and research findings from the lab
- Designed and implemented individual profile pages for each team member, highlighting their expertise and contributions to the lab's projects
- Collaborated closely with the lab's researchers to ensure accuracy in the site's information.
- Conducted thorough testing to ensure cross-browser compatibility and optimal performance across devices

Academic Tutor

School of Knowledge Tutoring

Jan 2021 – Present

Sydney, Australia

- Tutored a diverse range of students in computer science, mathematics, and physics, adapting teaching approaches to individual learning styles
- Developed lesson plans and study materials to reinforce key concepts and address specific areas of difficulty
- Guided effective study techniques, time management, and problem-solving strategies to promote academic success
- Consistently received positive feedback from students and parents, with an average student performance improvement of 1.5 letter grades

PROJECTS

Gambit Guru - Chess Openings Trainer (Demo) | [GitHub Repo](#)

JavaScript / HTML / CSS

- Developed a comprehensive online chess openings trainer using JavaScript, HTML5, and CSS3
- Implemented a wide range of popular openings for both white and black, enabling players to study and practice specific lines
- Created an intuitive drag-and-drop interface for seamless user interaction and enhanced learning experience
- Designed a customisable training range feature, allowing players to freely explore and experiment with various chess positions
- Optimized game logic and state management using efficient data structures and algorithms for smooth and reliable performance
- Employed responsive design techniques to ensure compatibility across different devices and screen sizes

Pushy - GitHub Clone in Shell Script (Demo Video)

Shell Script / Dash

- Leverages the power and flexibility of shell scripting, making it lightweight, efficient, and easily integrable with other Unix/Linux tools and workflows
- Implemented fundamental version control operations such as add, commit, remove, and show
- Allows users to track changes, create snapshots of their codebase, and manage file versions effectively
- Supports creation and management of multiple branches within a repository

Personal Portfolio Website (Demo) | [GitHub Repo](#)

JavaScript / React / Tailwind

- Developed a responsive and visually appealing portfolio website using React.js and Tailwind CSS
- Implemented smooth animations and transitions to enhance user experience and engagement
- Utilized reusable components and modular architecture for maintainable and scalable codebase
- Incorporated library icons to provide visual cues and improve navigation throughout the website

SKILLS

Languages: Python, C, C++, JavaScript, TypeScript, Java, HTML, CSS, Bash, SQL

Tools & Frameworks: React.js, Tailwind CSS, Node.js, Bootstrap, Git, MySQL, Unix