

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

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

- Good use of Tailwind and stuff
- Engaging animation and stuff
- Enjoyable and presentable
- Implementing popular opening moves and timed game modes for enhanced user experience
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WORK EXPERIENCE

Freelance Web Developer

March 2024 – Current

Upwork

- Website
- Client
- User
- User

Academic Tutor

Jan 2021 – Current

School of Knowledge Tutoring

- Tutor wide range of students in computer science, mathematics, and physics
- Develop personalized lesson plans and adapt teaching style to meet diverse learning needs
- Improved student performance by an average of 1.5 letter grades
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SKILLS

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

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