Diwas Mainali

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EDUCATION

University of New South Wales   January 2022 – December 2025
Bachelor of Computer Science   *Kensington, NSW, Australia*

PROFESSIONAL EXPERIENCE

Founder   May 2025 – Present
Cram and Conquer | Live Demo   *Sydney, Australia*

- Architected a full-stack productivity platform using React, Node.js, and MongoDB, featuring real-time group study sessions, customizable Pomodoro timers, and advanced user analytics with 99%+ uptime.
- Implemented secure authentication and payment systems with Google OAuth integration and Stripe payments, including comprehensive rate limiting, DDoS protection, and XSS prevention for enterprise-level security.
- Developed premium features ecosystem including interactive study companions with advanced animations, contribution graphs, and synchronized group sessions, driving user engagement and monetization.
- Optimized performance and scalability through efficient database design, automated session cleanup, token refresh mechanisms, and responsive design patterns, ensuring seamless user experience across all devices.

AI Frontend Development Trainer   April 2025 – Present
Outlier   *Remote*

- Trained AI systems to improve frontend development capabilities by creating precise implementation examples.
- Debugged and refined AI-generated code to match design specifications from reference screenshots.
- Created optimized React and HTML/CSS solutions that serve as high-quality training examples for AI learning.
- Collaborated with AI engineers to identify and address patterns in frontend code generation deficiencies.

Retention Specialist   November 2024 – April 2025
Volkswagen Financial Services (via Forrest Contact)   *Remote*

- Managed 10-15 daily refinancing inquiries in Salesforce, providing quotes for residual loans at 98% accuracy.
- Processed loan restructuring for 100+ clients monthly, implementing flexible payment solutions in Salesforce.
- Settled 20+ customers into new loans monthly through efficient application processing and structuring.
- Executed PPSR security interest removals and coordinated vehicle transfers for loan completion processes.

TECHNICAL PROJECTS

Gambit Guru - Chess Openings Trainer | Demo   JavaScript, HTML5, CSS3

- Designed a comprehensive chess openings trainer featuring popular strategies for both white and black pieces.
- Implemented a drag-and-drop interface, significantly enhancing user interaction and learning experience.
- Developed a customizable training range feature, enabling players to explore diverse chess positions.
- Utilized responsive design techniques to ensure seamless cross-device compatibility.

ScriptHub - Git Clone in Shell Script | GitHub Repo   Dash (Shell Scripting)

- Developed a command-line Git clone using Dash, successfully implementing core Git functionality.
- Engineered key Git commands including add, commit, checkout, and branch in shell script.
- Created a lightweight and efficient interface for managing repositories and version control workflows.
- Leveraged Dash's capabilities to handle complex file operations and maintain accurate project history.

EXTRACURRICULAR

UNSW Chess Society Volunteer

- Assisted in organizing and managing daily chess events for over 100 members.
- Provided chess instruction and strategy tips to beginners, enhancing their skills and enjoyment of the game.

TECHNICAL PROFICIENCIES

Programming Languages: Python, C, C++, JavaScript, TypeScript, HTML, CSS, Bash
Technologies & Frameworks: React.js, Tailwind CSS, Node.js, Express.js, MongoDB, Git, RESTful APIs