

PROFESSIONAL EXPERIENCE

Software Engineer, Les Mills Asia Pacific

Deakin, Canberra • Jul 2021 - Present

Les Mills Asia Pacific (www.lesmills.com.au): Provider of Group Fitness Programs

- Revamped the workshop registration system (workshops.lesmills.com.au) with an intuitive UI, enabling users to easily browse and register for workshops across various time zones, reducing processing time by 40% while supporting 2,000+ simultaneous participants.
- Designed and developed a billing automation dashboard, featuring an interactive UI to monitor billing processes, manage re-runs, and streamline issue reporting, enhancing finance team efficiency by 60%.
- Led the UI/UX redesign of the Releases application (releases.lesmills.com.au), implementing responsive design with Grid and Flexbox, improving maintainability, user experience, and boosting conversion rates by 15%.
- Built a centralised payment system UI, improving transaction visibility and simplifying the integration of multiple payment methods, leading to a 30% increase in efficiency.
- Developed a modern web app to replace an outdated system, making it easier to manage invoices and payments for 200+ trainers and presenters. This improved operational efficiency by 40%.
- Designed the venue management system, replacing Excel with a user-friendly web app. Integrated third-party map APIs, making it easier for the operations team to manage venues and improving efficiency by 20%.
- Developed an internal debugging tool UI to reprocess MQ errors, reducing IT troubleshooting time for message queue failures by 50%, significantly improving the IT team's debugging and resolution processes.
- Built a customised eLearning platform (elearning.lesmills.com.au) on the open-source Moodle framework, leveraging the Moodle API to seamlessly connect services and plugins for translations, assessment reviews, content storage management solution, course structuring, and more. This transformation from traditional paper- and email-based methods improved training efficiency by 40% and enhanced the learning experience for 3000+ trainees and trainers.
- Used JavaScript, HTML, CSS, Bootstrap, and Symfony to build responsive and user-friendly interfaces, improving workflows and enhancing user experience. Also worked with PHP, Moodle, Git, and Docker for seamless integration and scalability.

Full-Stack Developer Intern, SimpleMarketing.AI (startup)

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Reknow.io (www.linkedin.com/company/reknowio): AI-powered Marketing Content Generation Platform

- Enhanced platform performance by 20% by developing new frontend components and optimising UI rendering.
- Debugged frontend-backend inconsistencies, reducing AI content processing errors by 15% and improving user interactions.
- Integrated a third-party image API, enhancing UI responsiveness and dynamic content generation.
- Leveraged knowledge in Vue.js, JavaScript, PHP (Laravel), MySQL, Git, frontend development.

OPEN SOURCE CONTRIBUTIONS

Moodle Contributions

- Introduced Localisation Support: Enhanced H5P Captions with accurate language display for global users (tracker.moodle.org/browse/MDL-84686).
- Enhanced System Stability: Addressed fatal error handling in Moodle, improving system stability (tracker.moodle.org/browse/MDL-82484).

H5P Contributions

- Improved H5P Interactive Video: Detected and reported text track loading error, enhancing accessibility for 17,000+ websites (h5p.org/node/1522096).

SOFTWARE PROJECTS

Personal Blogs & Website: www.gloriachen.me (for additional blogs, information and projects)

GrocerCompare (github.com/chen-gloria/grocer-compare): Instantly grocery price comparison.

- Designed and built responsive, minimalist UIs for both web and mobile using Next.js, React Native, and Tailwind CSS.
- Implemented seamless dark/light mode, intuitive search interactions, and real-time data rendering from a shared API backend.
- Utilised: Next.js, React Native, Node.js, Express, PostgreSQL, Tailwind CSS

Leftover-to-Recipe (leftover-to-recipe.fly.dev): AI-powered recipe generator from kitchen ingredients.

- Built a responsive web interface using Symfony + Twig, delivering a seamless user
- Integrated AI algorithms to generate creative recipes from user-inputted ingredients.
- Deployed the application on fly.io, ensuring stability and accessibility.
- Utilised: Symfony, JavaScript, fly.io, Docker

Report Generation: AI-assisted recruitment report generation web application.

- Designed and developed a frontend interface for an AI-powered web app that automates report generation from documents.
- Integrated machine learning algorithms to extract insights from applicant documents.
- Utilised Docker for streamlined deployment.
- Utilised: Symfony, JavaScript, PostgreSQL, Docker

HACKATHON

Winner, Build Club AI Hackathon (Canberra)

Jun 2024

- Built an AI-powered web app that generates recipes from leftover ingredients in the refrigerator.
- Led full-stack development, collaborating with a team to build the app in 24 hours.
- Recognised for the most innovative and practical AI solution, winning the Build Together AI Hackathon 2024 in Canberra.
- Entered as a finalist in the Build Together Hackathon Global Finals for overall project excellence.

EDUCATION

Master of Computing, The Australian National University

Canberra • Feb 2018 - July 2020

- **Specialisation:** Human-Centred Design and Software Development
- **Award:** ANU College of Engineering & Computer Science International Postgraduate Excellence Award (China) (systems.anu.edu.au/news/2018/08/13/celebrating-student-achievement)
- **High Distinction (HD):** HCI & Usability Engineering
- **Distinction (D):** Networked Information Systems, Art and Interaction in New Media

SKILLS

- **Languages:** Python, PHP, HTML, CSS, JavaScript, TypeScript, SQL
- **Frameworks:** Symfony, Laravel, React, Vue.js, Bootstrap, Tailwind, Git, Docker, Django, Firebase
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Cloud & DevOps:** Firebase, fly.io, Vercel, Render, MongoAtlas, AWS, Docker, CI/CD, Docker, Kubernetes

REFEREES

Provided Upon Request.