

# Jingheng (Steven) Cai

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Portfolio: <https://steven-portfolio-eight.vercel.app/>

## PROFILE

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Results-driven **Software & Full Stack Developer** with a strong foundation in **front-end and back-end development**. Proficient in **HTML, CSS, JavaScript, TypeScript, Python, C++, React, Next.js and Node.js** with experience in **API development, cloud deployment, and database management**. **Passionate about building scalable and user-friendly applications**, with a strong ability to learn new technologies and optimize software performance. Highly adaptable and detail-oriented, eager to contribute to a dynamic development team.

## EDUCATION

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<b>The University of New South Wales</b> , Sydney NSW	Jun 2023 - Present
The Master of Information Technology - WAM:76/100	
<b>The University of Sydney</b> , Sydney NSW	Feb 2019 - Jul 2023
Bachelor of Engineering Honors (First Class: Mechanical Engineering) - WAM: 77	

## Work Experiences

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<b>Joidea Creative Pty Ltd</b> , Sydney NSW	Dec 2024 - Present
<b>Data &amp; Technology Contractor</b>	
<ul style="list-style-type: none"><li>Developed automated data pipelines using SQL and Python, processing 10K+ records monthly to improve marketing insights by 35%, reducing manual data handling time by 50%, and optimizing cross-platform data workflows.</li><li>Designed and implemented data extraction scripts to clean and enrich databases, reducing data redundancy by 40%, improving segmentation accuracy by 25%, and accelerating data retrieval speed for analytics.</li><li>Built interactive analytics dashboards using React and Chart.js, enabling real-time visualization of user engagement trends across 15+ marketing campaigns, enhancing targeting accuracy and campaign effectiveness.</li></ul>	
<b>Passive Engineering Service Pty Ltd</b> , Sydney NSW	Oct 2023 - Jan 2024
<b>Software &amp; Automation Intern</b>	
<ul style="list-style-type: none"><li>Automated cost estimation and inventory tracking by developing a quotation tool and inventory system using JavaScript, Python, and barcode scanning, reducing manual input by 30% and documentation errors by 35%.</li><li>Optimized workflow efficiency by assisting in the design and deployment of a real-time digital inspection platform, reducing tracking errors by 20%, enhancing data accuracy, and improving fire safety compliance monitoring.</li><li>Collaborated with clients to analyze technical requirements, implementing customized IT solutions that streamlined compliance workflows, automated reporting tasks, and reduced manual processing time by 50%.</li></ul>	
<b>Jacaranda Flame Consulting Pty Ltd</b> , Sydney NSW	Jun 2022 - Aug 2022
<b>Digital Engineering Intern</b>	
<ul style="list-style-type: none"><li>Developed an automated billboard model creation system in Tekla Structures, cutting design cycle time by 95%, improving workflow automation, and reducing manual intervention in engineering design processes.</li><li>Optimized 3D structural modeling for Hanlon Industries, increasing accuracy by 15%, and self-learned C# in 2 months to develop automation scripts, streamlining repetitive design tasks and reducing human errors in modeling workflows.</li><li>Managed project timelines using Gantt charts and Agile methodologies, ensuring 100% on-time delivery, exceeding project milestones by 10%, and facilitating seamless coordination between multi-parties to enhance productivity.</li></ul>	

## RELEVANT PROJECTS

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### AI-Powered Flashcard Generation Plugin for Atlassian, Sydney NSW

Sep 2024 – Dec 2024

**Technologies:** React, TypeScript, Forge CLI, Gemini API, Confluence API

- Developed an AI-driven plugin integrating Gemini API to automate flashcard generation, enhancing content creation efficiency by 40% and improving user workflow automation for knowledge retention.
- Built an interactive UI using React and TypeScript, ensuring a seamless experience with enhanced engagement, accessibility, dynamic real-time feedback mechanisms, and intuitive navigation features.
- Engineered backend logic via Forge API & Forge Storage, supporting real-time flashcard creation, editing, and categorization, ensuring high data persistence, security, and cross-platform reliability.
- Led full-scale testing across sorting, filtering, pagination, and flashcard management, ensuring system stability, performance consistency, improved load balancing, and 95%+ functional accuracy across various use cases.

### Property Pulse – Full-Stack Rental Platform, Sydney NSW

Jul 2024 - Aug 2024

**Technologies:** Next.js, React, Tailwind CSS, MongoDB, NextAuth, Cloudinary, Mapbox, Photoswipe

- Developed a full-stack rental platform, enabling users to browse, list, and manage properties with real-time updates, optimized database queries, and leveraging Next.js Server Actions for efficient data retrieval and real-time updates.
- Implemented secure authentication with NextAuth, supporting Google login, session persistence, multi-factor authentication, and role-based access control, enhancing platform security and preventing unauthorized access.
- Built an in-app messaging system with unread notifications, real-time chat support, and automatic status updates, ensuring seamless communication between property owners and renters while reducing response time by 30%.
- Implemented Photoswipe for the multi-image property gallery to improve listing engagement and efficiency.

### E-Commerce Platform – Full-Stack Online Store, Sydney NSW

Oct 2023 - Nov 2023

**Technologies:** Next.js, TypeScript, PostgreSQL, Tailwind CSS, Prisma, NextAuth, Stripe, PayPal, Recharts

- Designed and developed a scalable e-commerce platform with secure authentication, role-based access control, and payment integration (Stripe, PayPal), ensuring fast, secure transactions and fraud prevention.
- Created an interactive admin dashboard using Recharts for real-time analytics, enabling business owners to track sales trends, customer behavior, and product performance insights dynamically.
- Implemented advanced search functionality with filtering, sorting, and multi-step checkout, improving user experience and reducing cart abandonment rates by enhancing product discoverability.
- Optimized product management with multi-image uploads, order tracking, and automated inventory updates, ensuring accurate stock levels and reducing manual tracking efforts by 40%.

## Technical Skills

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**Languages:** JavaScript (ES6+), TypeScript, Python, C++, C#, SQL, HTML, CSS

**Frontend:** React, Next.js, Tailwind CSS

**Backend:** Next.js, Node.js, Express.js, RESTful API

**Database:** MongoDB, PostgreSQL, MySQL

**Cloud & DevOps:** AWS (EC2, S3), Prisma, Firebase, Docker, CI/CD (GitHub Actions)

**Tools & Other:** Git, Linux, Agile, Jira, Figma, Webpack

## Additional Information

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**Languages:** Mandarin (Native), English (Professional), Cantonese (Conversational)

**Soft Skills:** Problem-solving, Analytical Thinking, Team Collaboration, Agile Development