Marcus Loy

Full Stack Software Engineer

Profile

Bachelor of Engineering (Hons.) and Bachelor of Information Systems student and graduate of the General Assembly Software Engineering 3 month immersive bootcamp.

I have experience in engineering and IT settings, working on large-scale team projects and individually on discrete problems. I enjoy the intersection of engineering and IT, through the opportunities for creative problem solving. My engineering background is in systems engineering, majoring in mechatronics and software development. I have also worked in information systems at the Royal Prince Alfred Hospital IT Department, assisting in designing the first 'Virtual Hospital' in New South Wales.

I am seeking full-time work in software engineering, to apply and grow my skillset as I finalise my undergraduate studies.

Contact

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Tech Stack

Node.js	Ruby on Rails
React.js	PSQL
Express.js	Sinatra
Matlab	HTML
Python	CSS

Software Engineering Projects

PC Builder
A web application using Express.js and PSQL in the backend and JavaScript in the front end to achieve a user computer builds planner application. BCrypt was utilised to secure user login data, and Dom manipulation was used in the front end along with basic CSS and HTML principals.
https://github.com/marcusloy77/PC-Builder
https://pc-builder-greatest.herokuapp.com/

PC Parts Webscraper
A helper project I designed to support my teams PC Builder Project – This utilises Axios and Cheerio JS packages to create a basic parts Api by scraping popular PC parts sellers, parsing the data added then creating a database from scratch based on this scraped data.
https://github.com/marcusloy77/Pc-Parts-Web-Scraper

Movie Countdown
A CRUD application designed to show a countdown to movie release dates. Sinatra and SQL were used to design the backend, while JavaScript was used to design the front end. A popular movie API was utilised in order to pull movie information.
https://github.com/marcusloy77/movie-countdown
https://ancient-brook-21026.herokuapp.com/

Additional Experience

Jan - Present 2021
Sydney Local Health District

Covid Administrative Officer
Assisted a large team (50+ employees) in providing vaccinations to Sydney Residents during the COVID19 Pandemic.
Role involved a mix of client facing data collection, backend data processing and concierge responsibilities.

Jan - March 2020
Royal Prince Alfred Hospital ICT Team

IT Internship
Assisted in the building of the first Virtual Hospital in NSW. This included facilitating in the coordination of multiple stakeholders, setting up hardware, and working within a large team. Also assisted in a large data centre reclamation project that involved movement from physical servers to a cloud service.

Education

March-July 2022
General Assembly

Software Engineering 3-Month Full Time Immersive Boot Camp
Full time course in full stack web development, covering Javascript, HTML, CSS, PSQL and Ruby.

2016-2024
Australian National University

B. Systems Engineering/ B. Information Technology
A double degree with honors, majoring in Mechatronics and Software Development respectively - expected graduation 2024