

Joshua Law

Software Engineer, Designer

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[LinkedIn](#) | [Portfolio](#) | [GitHub](#)



Education

2021 - 2024 **Bachelor of Computer Science, Minor in Data Science**

(Renamed Constructor) Jacobs University, Bremen, Germany

Relevant Coursework: Operating System (Linux), Programming in C/C++, Algorithms and Data structures, Introduction to Computer science, Intro to Data Science, Software Engineering, Applied Machine Learning, Web Application Development, Databases and Web Services, Data Modelling and Analytics, Secure and Dependable Systems, Computer Architecture, Automata Theory, Numerical Methods, Computer Networks

Skills

Languages: Cantonese (Native), Mandarin (Native), English (Native/Bilingual), German (B1)

Programming: Python, C, C++, C#, HTML, CSS, JavaScript, ReactJS, PHP, SQL, Haskell, Django

Technologies: MongoDB, Firebase, Linux, Git, Docker, Jupyter Notebook, JQuery, Unity

Hard: InDesign, Figma, Full Stack Development, Software Engineering, Web Services, Database Systems

Soft: Leadership, Teamwork, Discipline, Situational Thinking, SCRUM development, Project management, Communication

Certification: Assessment for the skill of Python and C++ (Hackerrank)

Projects

- Trainy Topdown 3D Game (Unity, C#, Blender)
- Bachelor's Thesis Reversible Covert Channel Over TLS (Python, mininet, scapy) - [Link](#)
- Full-Stack COMarkt Online Market place (Django, JS, ReactJS, Node, CSS, Figma)
- Full-Stack GAINS Fitness Tracker Web Application (JS, HTML, CSS, Firebase) - [Link](#)
- Back-End Bug World Client Side Simulation Engine (Javascript, HTML, CSS) - [Link](#)
- Full-Stack CampusNot Student Database Management System (PHP, JS, HTML, CSS, SQL) - [Link](#)
- Personal Website Portfolio (JS, HTML, CSS) - [Link](#)
- jacobsHack! Website (ReactJS, JS, HTML, CSS, MongoDB, Figma) - [Link](#)

Experience

06/24 - 08/24 **Software Engineer | SimplyTECH Ltd Macau**

- Created Software in C++ used for managing various events hosted at the top hotels in Macau, minimizing manual work and increasing efficiency of the company operations by at least 40%.
- Worked the new updated 2024 website in ReactJS and NodeJS, expecting to bring in 50% more viewers

07/23 - 07/24 **Housing Department Student Assistant | Constructor University**

- Coordinated student housing services and managed office tasks, facilitating 600+ students each semester
- Optimized the student housing database using SQL, reducing query times by 75%
- Updated and organized content for the Student Housing website, improving navigation for 100+ visitors monthly

08/23 - 12/23 CyberFit Academy Working Student | Acronis GmbH

- Automated Linux virtual machine management scripts using Python, improving system efficiency by 20%
- Resolved API issues and authored comprehensive documentation, enhancing usability for over 30 developers

06/23 - 08/23 CyberFit Academy Intern | Acronis GmbH

- Designed and deployed new lab environments for 10+ CyberFit Academy courses, supporting over 100 partners
- Developed virtual machine automation scripts for the MSP School learning course, reducing setup time by 30%

07/22 - 11/22 Full-Stack Developer | jacobsHack! Hackathon 21st Edition - [Link](#)

- Prototyped webpage templates using Figma, reducing design approval time by 55%
- Engineered and launched static and registration pages using HTML, CSS, and ReactJS for 100+ participants
- Integrated MongoDB API to securely manage participant data, managed 500+ records

06/21- 08/21 Coding Academy Tutor | Unicorn Education Macau

- Educated 20+ teenagers on programming concepts, leading to 100% course completion rate
- Guided students in building mini-games using block coding, enhancing their engagement and understanding

09/20 - 06/21 Humanoid Robotics Instructor | Macau Anglican College

- Instructed 10+ students on designing and constructing bipedal robots using 3D-printed components
- Led the design of custom robot parts with AutoCAD, increasing project completion rates by 40%
- Guided students in programming robots with Robo+ software, fostering their systematic thinking skills