

Emma Thadine Wijaya

Third Year Computing Student at Curtin University

P: 0466-071-953

E: emmathadine@gmail.com

L: [linkedin.com/in/emma-wijaya](https://www.linkedin.com/in/emma-wijaya)

PROFESSIONAL EXPERIENCE

Student Software Engineer Intern

Feb 2025 - Present

Deloitte, Perth WA

- Collaborated on a project utilizing quantum computing techniques to explore innovative solutions for complex computational problems.
- Gained experience with quantum programming frameworks and supported documentation of technical findings for internal stakeholders.

AccessAbility Note Taker

Sep 2024 - Present

Curtin University, Perth WA

- Provided high-quality, accurate lecture notes to three students registered with Counselling and Disability Services.
- Ensured clarity and completeness of notes for over five different lessons weekly to support students' academic success.
- Adapted quickly to different subjects and lecture styles from three different faculties, maintaining efficiency and reliability in note-taking.
- Managed confidential student information with professionalism and adherence to university policies.

Teaching Assistant

Mar 2023 - Present

Kumon Cannington, Perth WA

- Taught English and Mathematics, providing guidance to 30+ students to enhance understanding and problem-solving skills.
- Evaluated and marked student work with attention to accuracy and consistency, ensuring constructive feedback for improvement, marking and recording 30 sheets an hour.
- Adapted quickly to new responsibilities within two months, efficiently managing multiple tasks in a fast-paced learning environment.

Private Tutor

Aug 2021 - Present

Star Generation Indonesia, Remote Work

- Provided online tutoring in Mathematics, Physics, and Computer Science, helping students achieve target scores of 95-100%.
- Earned Tutor Plus status in recognition of dedication, strong work ethic, and outstanding feedback from students and parents.
- Developed personalized lesson plans and adapted teaching methods to suit individual learning styles of four students, improving student comprehension and performance.
- Maintained clear communication with all four students and parents to track progress and contribute targeted support. Updated student logbook with new lesson material and progress.

Freelance Developer and Illustrator

Jun 2021 - Present

Self-employed, Remote Work

- Illustrating 20+ art commissions such as character art and character designs as a hobbyist. Created illustrations for multiple YouTubers with 1M+ subscribers to be used as channel art/branding.
- Built and developed 5+ mobile applications for clients, handling front-end and back-end development.
- Conceptualized and implemented innovative, practical, and effective project proposals for over 10 projects, ensuring high-quality code, neat and helpful documentation and functionality.

EDUCATION

Bachelor of Computing (Major in Computer Science)

2023 - 2025

Curtin University

CWA: 91.31%.

- Awarded 'Most Outstanding First Year Student' and 'Most Outstanding Second Year Student' by the Science and Engineering Faculty and School of EECMS Student Awards 2023 and 2024 for academic excellence.
- Achieved Vice Chancellor's List award twice in Semester 1 and 2, 2023 for being in top 1% of undergraduates.
- Merit Scholarship Recipient.

Relevant Course Work: Machine Learning, Human Computing Interface, Web Application Frameworks, Data Structures and Algorithms, Design and Analysis of Algorithms, Database Systems, Theoretical Foundations of Computer Science, Object Oriented Software Development, Operating Systems, Intelligent Agents, Computer Communications, Unix and C Programming, Programming Design and Implementation, Github, Java, Kotlin, Python and MySQL.

ACHIEVEMENTS AND AWARDS

Most Outstanding Second Year in Computing 2024 Feb 2025

Faculty of Science and Engineering, Curtin University, Perth WA

- Awarded by the Dean of Science and Engineering at the 2024 Science and Engineering Student Excellence Awards.
- Performed to such an outstanding level in 2024, selected to be recognised as the Most Outstanding 2nd Year Student in Computing.

Most Outstanding First Year in Computing 2023 Nov 2023

Faculty of Science and Engineering, Curtin University, Perth WA

- Awarded by the Dean of Science and Engineering at the 2023 Science and Engineering Student Excellence Awards.
- Performed to such an outstanding level in 2023, selected to be recognised as the Most Outstanding 1st Year Student in Computing.

Ever Nimble Best First Year Bachelor of Computing Student Nov 2023

School of EECMS, Curtin University, Perth WA

- Awarded by the School of Electrical Engineering, Computing & Mathematical Sciences at the 2023 EECMS Student Awards Ceremony.
- Recognized as the Best First Year student in Computing, awarded a prize from Ever Nimble, Perth MSP & MSSP.

Vice Chancellor's List Two-Time Recipient Nov 2023

Curtin University, Perth WA

- Achieved a place on the Vice Chancellor's List for being in the Top 1% of undergraduates in Semester 1 and 2 2023.

Letter of Commendation Four-Time Recipient Nov 2024

Curtin University, Perth WA

- Awarded by the Dean of Science for high academic performance attained during Semester 1 and 2, 2023 and 2024.

PERSONAL PROJECTS

Full Stack Mobile Application Developer Nov 2024

Calorie Tracker Application, Perth WA

- Devised and constructed a calorie tracking application for Android, integrating advanced UI/UX principles.
- Implemented Kotlin, API calls, and JSON parsing to retrieve and process nutritional data efficiently.
- Utilized asynchronous tasks to ensure smooth performance and responsiveness.
- Applied Adobe Photoshop to design visually appealing and user-friendly interface designs.

Full Stack Mobile Application Developer Sep 2024

Connect Four Game Developer, Perth WA

- Designed and developed a Connect Four game for Android, ensuring an engaging and interactive user experience.
- Utilized Java, Jetpack Compose, and ViewModel architecture to create a structured and maintainable codebase.
- Implemented smooth gameplay mechanics and optimized performance for a responsive user interface.

System Developer

Oct 2023

Shopping Mall Directory System, Perth WA

- Designed and developed a Shopping Mall Directory System using Java, enabling efficient navigation and store lookup.
- Implemented data structures and algorithms, including hash tables, binary trees, graphs, heaps, and graph traversal (BFS, DFS) to optimize search and retrieval functions.
- Ensured system efficiency and scalability through well-structured code and algorithmic optimizations.
- Constructed an intuitive user interface for seamless navigation and enhanced user experience.

KEY SKILLS

- Programming Languages: Constructed and deployed multiple applications in Java, Kotlin, Python, C, SQL, HTML, and XML
- Software Development: Full-stack development in Java, Kotlin, Python and C, mobile application development (Android), API integration, database management with MySQL and RoomDB
- Data Structures & Algorithms: Deep understanding of Hash tables, trees, graphs, heaps, BFS/DFS traversal, time and computational complexity, implementing these concepts when building projects
- Software Design Patterns: Knowledgeable about SDPs such as Observer Pattern, State Pattern, Decorator Pattern, etc, implementing them in various programs
- Cloud and Networking: Worked with Computer network protocols (TCP/HTTPS), Cisco Packet Tracer
- Version Control and Collaboration: Operated GitHub, and worked on group projects with Git for team-based collaboration
- UI/UX & Graphic Design: Figma, Adobe Illustrator, Photoshop, After Effects
- Testing & Debugging: Debugging Java/Kotlin applications, working with other's code, ensuring optimal performance
- Problem-Solving & Analytical Thinking: Proven ability to tackle complex coding challenges and improve efficiency
- Communication & Collaboration: Experience mentoring students, tutoring, and working with clients on freelance projects
- Adaptability & Quick Learning: Successfully self-taught new technologies and adjusted teaching methods for different learners
- Leadership & Mentoring: Led study groups for Java programming and software engineering, guided students as a tutor
- Customer Service & Stakeholder Engagement: Retail management experience, strong interpersonal skills from tutoring and freelance work
- Multilingual: English, Bahasa Indonesia, Mandarin

VOLUNTEERING

STEM Study Buddies Leader

Mar 2024 - Aug 2024

Curtin University, Perth WA

- Directed mentoring sessions for COMP1007 Programming Design and Implementation and ISAD1000 Introduction to Software Engineering, assisting 20+ students in understanding core programming concepts and software engineering principles.
- Delivered guidance and tutoring on Java programming, object-oriented design, and software development methodologies.
- Fostered a collaborative learning environment, encouraging students to enhance problem-solving skills and build confidence in coding through weekly meet-ups.

Public Relations Officer

Jan 2021 - Dec 2022

Mathletes SIS-KG, Jakarta

- Represented SISKG's Mathletes as Public Relations Officer, maintained relationships between 30+ maths clubs across various schools in Jakarta.
- Coordinated and liaised with organizing committee for the 2021 Singapore School Maths Olympiad, hosting 250 contestants from 40 schools across Indonesia.

YouTube Manager and Content Creator

Jan 2019 - Dec 2021

Techtorial, Jakarta

- Founded and organized a student-led, non-profit YouTube channel focused on educating students and teachers on educational software, gaining over 300 subscribers with about 70 videos posted within one semester.
- Recorded content for 50+ YouTube videos and helped students and teachers learn more about educational software features such as Google Suite and Zoom.

Participant

Dec 2020

eHack for Charity, USA

- Volunteered in eHack for Charity 2020, an online hackathon in support of Doctors Without Borders.
- Created an application for health check-ups for those affected by natural disasters. Designed 10+ application assets and led product and sound design.

REFEREES

Raynald Gozali, Star Generation CEO

Terence Khoo, Kumon Cannington Centre Manager

More Available Upon Request