

Chia Chun (Chloe) Chen

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SOFTWARE DEVELOPER

C# | System Development | Growth-Oriented

- Software and Manufacturing Systems Engineer with 3+ years of experience in semiconductor manufacturing systems, MES, data integration, and AI-driven defect detection.
- Holds a Master's degree in Biomedical Informatics with expertise in data analytics, machine learning, databases, and system integration; Current student of Health Informatics Technology
- Demonstrated analytical and critical thinking skills, with an acumen for learning new technologies

TECHNICAL SKILL

Programming Languages: C#, JavaScript, Python, HTML/CSS

Database Management: SQL, PL/SQL

Web Technologies: jQuery, .Net, ASP.NET

Development Tools: Git/GitHub, Visual Studio Code, Eclipse

Other Technologies: Machine Learning, Deep Learning

WORK EXPERIENCE

Software Engineer | Xintec Inc., Taoyuan, Taiwan Oct 2021 - Oct 2024

- Maintained and enhanced the Manufacturing Execution System (MES) to support high-volume semiconductor production with a focus on scalability, performance, and reliability.
- Participated in 2 cross-functional projects and delivered 10+ user requirements from analysis to implementation, improving production workflows and system usability.
- Implemented Fault Detection and Classification System (FDC) for defect prediction, utilizing 10+ analytical methods and nearly 10 types of charts to visualize trends, anomalies, and root-cause insights.

ACADEMIC PROJECTS

AI Image Segmentation & GAN System | Master Thesis, National Yang Ming Chiao Tung University

- Developed a Python & PyTorch application for pixel-level segmentation, integrating GAN training to enhance prediction quality and robustness.
- Implemented analysis modules with visualization formats, achieving 4% performance improvement over baseline model.

Smart Pillbox Cloud Management System | Undergraduate Project, Ministry of Science & Technology

- Designed an IoT + cloud platform integrating Arduino hardware, Bluetooth communication, mobile apps, and SQL Server backend.
- Built cross-platform interfaces (iOS/Android/Web) with notification and reporting modules used by patients and caregivers.

EDUCATION

Health Informatics Technology (Co-op) Advanced Diploma (Fast-Track)

Sep. 2025 - Present

Centennial College, Toronto, ON

Expected Graduation: Apr. 2027

Key Courses: Java Programming | OOP Principles | Web Application Development | Testing & QA

Master of Biomedical Informatics

Sep. 2019 - Aug. 2021

National Yang Ming Chiao Tung University, Taipei, Taiwan

Bachelor of Healthcare Information & Management

Sep. 2015 - Jun. 2019

Ming Chuan University, Taipei, Taiwan