Samuel Chuang
Software Engineer

I am a software engineer specializing in ERP development, virtualization, and database optimization. Proficient in C/C++, Python, and Genero 4GL, I thrive in cross-team collaboration and problem-solving. I aim to become a system architect, focusing on enterprise system design, optimization, and leading technical teams to tackle critical challenges.

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WORK EXPERIENCE

Software Engineer   **Digiwin Software Co., Ltd.**   **2021 – 2025**

Currently, I work as a **Software Engineer** at **Digiwin Software Company**, focusing on **ERP system development and maintenance, virtualization, server management, and database optimization.** My key responsibilities include:

- **ERP Optimization:** Enhanced T100 and GP system compatibility, optimized RHEL parameters, and improved large-scale connection stability.

- **System Architecture & Maintenance:** Managed VMware hosts, Linux/Windows servers, and handled hardware installation and maintenance.

- **Database Management:** Maintained Oracle databases, conducted performance testing and optimization.

- **Domestic Database Adaptation:** Participated in Kingbase and MogDB performance testing and ERP migration projects, reducing enterprise database procurement costs by 20-30%.

- **T100 Historical Data Segmentation Project**:
    - Migrated 10-20 years of historical data, improving query performance and **reducing backup time by over 30%.**
    - Ensured **100% customer issue resolution**, preventing disruptions to operations.

- **License Management System Optimization**: Strengthened license security, reducing unauthorized access risks, ensuring accurate user count tracking, and improving system stability.

- **2024 Best Technical Development Award**: Recognized for outstanding contributions to technical development.

Technical Coordination & Problem-Solving

- **Coordinated with product teams, application departments, and Chinese clients** to collect server logs and report issues to 4js France, resolving 4js component bugs.

- **Decomposed application processes into modular sections,** conducted unit testing, and cross-checked Apache FastCGI logs and Wireshark packet captures to accurately pinpoint issues.

- **Successfully prompted 4js to resolve bugs**, eliminating application crashes and enhancing system stability.

Team Process Optimization & Database Performance Analysis

- **Optimized team development processes**, establishing project milestones, such as Renda Kingbase database performance optimization, with clear key objectives.
- **Collaborated with database experts to analyze SQL optimization strategies**, refining execution plans to achieve performance comparable to Oracle.
- **Established a daily reporting mechanism**, assigning responsible personnel to enhance team collaboration and project efficiency.

Mentorship & SQL Discussions

- **Guided new team members** in understanding reporting procedures and learning **SQL performance testing methodologies**.
- **Conducted SQL query optimization discussions**, identifying full-table scans and evaluating query cost reduction strategies.
- **Led comparative analysis of GaussDB and Oracle**, providing professional recommendations for optimal database application scenarios.

Software Engineer   The Church in Taipei Information Center   2019 – 2021

I self-learned React and successfully developed the second version of the church attendance system:

- Utilized Ant Design and Egg.js frameworks for rapid development.
- Built a full-stack architecture, ensuring seamless integration between front-end and back-end.
- Enhanced user experience and system maintainability.
- Streamlined attendance management workflows, improving efficiency.

EDUCATION

NATIONAL KAOHSIUNG FIRST UNIVERSITY OF SCIENCE AND TECHNOLOGY

Master of Electrical and Electronics Engineering   2013 - 2016

I participated in industry-academia projects, including:
- Electroplating solution detection system
- Game equipment for Swan Castle's Handicapped Foundation
- Taiwan High-Speed Rail (THSR) time conversion system
- THSR railroad switch monitoring system

Bachelor of Electrical and Electronics Engineering   2009 - 2013

LANGUAGE

- English (Professional)
- Chinese (Native)

SKILLS

- Programming Languages: C/C++, Python, PHP, Genero 4GL, JavaScript
- Front-End Technologies: HTML, AJAX, React.js (Material-UI, Ant Design), Next.js, Umi.js
- Back-End Technologies: Node.js, Egg.js, RESTful API, SQL Optimization
- Database Management: Oracle, Kingbase, MogDB, SQL Join Optimization, RDS Replication
- Server & Virtualization: VMware ESXi, VMware vSphere, Linux (RHEL), Windows Server
- Cloud Technologies: AWS EC2, AWS RDS, CI/CD Continuous Integration Deployment
- Security: JWT Authentication, XSS Protection, Firewall Management