CHENG LI | LEAD SOFTWARE ENGINEER

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SUMMARY

Software Engineer experienced in building distributed systems that process millions of daily transactions, leading large-scale data migrations, and driving modernization initiatives.

WORK EXPERIENCE

FINYS, Troy MI   January 2019 – Current

Lead Software Engineer

- Designed the foundational architecture for Billing 3.0 and guided its implementation, setting project structure, data models, and .NET Core microservices that delivered a 90% performance gain and scaled to tens of millions of daily transactions.
- Optimized database schemas for integrity and scalability, implementing SQL indexing and ID-based lookups that cut query times by 80% and reduced maintenance overhead.
- Directed a team of 10 engineers and 3 BAs, accelerating delivery and mentoring staff into senior roles.
- Led modernization from legacy systems to Billing 2.0 and advanced the platform toward 3.0, driving system design, service migration, and schema optimization to improve stability and reduce technical debt.

Software Engineer

- Developed a data migration tool that restructured legacy data into a modern, high-performance schema, reducing query times and improving usability, and continues to migrate 10M+ transactions.
- Supported the migration from legacy systems to Billing 2.0, transferring 15+ years of data (over 5M transactions) with zero business disruption and ensuring stability for seamless client adoption.

Junior Software Engineer

- Reworked billing UI components into modular, reusable designs, improving maintainability and enabling scalable feature development across the platform.

SKILLS

- **Programming:** C#, .NET Core, JavaScript, SQL, Python, C, Java
- **Systems:** Large-Scale Distributed Systems, Microservices, API Development, System Design, Infrastructure
- **Performance:** Scalability, Debugging, Query Optimization, System Monitoring, Automated Testing
- **Tools:** Git, Azure DevOps, CI/CD, Code Reviews, Automated Builds & Releases, Agile/Scrum
- **Fundamentals:** Data Structures & Algorithms, Object-Oriented Design, Complexity Analysis
- **Leadership:** Mentorship, Cross-Functional Team Leadership, Technical Roadmapping
- **Languages:** English, Chinese

EDUCATION

Grand Valley State University, B.S in Computer Science   May 2019

- **Capstone:** Industry-sponsored by P&G – Android/iOS app with computer vision for smile and tooth recognition
- **Publication:** A Novel Global Key-Value Storage System Based on Kinetic Drives