SAI SAM PHYO LINN

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SUMMARY

I started in system administration, where I spent 5 years managing IT infrastructure and automation. Over the past 2 years, I've transitioned into backend software development, focusing on building APIs, handling integrations, and contributing to enterprise applications. Looking to grow further as a software engineer while continuing to build on a strong foundation in systems.

PROFESSIONAL EXPERIENCE

OSTTRA   **Singapore**
Software Engineer I   **Jan 2023 – Aug 2024**

*OSTTRA is a leading provider of progressive end-to-end post-trade solutions for global financial markets, bringing together the expertise of MarkitServ, Traiana, TriOptima, and **Reset**. The company specializes in automating and optimizing post-trade workflows across various asset classes, including foreign exchange, interest rate derivatives, and credit derivatives. OSTTRA employs approximately 1,033 professionals worldwide and has an estimated annual revenue of $303.7 million.*

- **Agile & Pair Programming:** Actively participated in Agile development processes, including daily stand-ups, sprint planning, retrospectives, and backlog refinement. Engaged in pair programming sessions to improve code quality, knowledge sharing, and collaboration across the development team.

- **Algorithm Development:** Designed and implemented an algorithm to resolve Flexi positions on option positions, significantly reducing manual processing time and enhancing efficiency in handling complex financial data.

- **API Development:** Designed and maintained a scalable API backend in C# .NET, utilizing MediatR and the Repository Pattern to ensure structured and maintainable business logic. Continuously expanded and enhanced API features based requests from operations (Ops) teams, adapting to evolving business needs.

- **Automated Testing & Test-Driven Development:** Followed a TDD (Test-Driven Development) approach, guaranteeing that production-ready code is always accompanied by unit tests to uphold high code quality and reliability. Fixed broken unit test cases after upgrading the test framework from NUnit 2 to NUnit 3, ensuring seamless compatibility and preserving test coverage. Diagnosed and resolved issues in existing automated testing pipelines in TeamCity that broke after the software upgrade, facilitating smooth integration and continuous delivery without disrupting development workflows.

- **Build System:** Gained hands-on experience in build system configuration to streamline the software build process. Leveraged MSBuild to automate, optimize, and standardize the build pipeline, improving reliability and efficiency across multiple projects.

- **Frontend Development with Vue.js & Pinia**: Built a responsive financial dashboard using Vue 3 and Pinia with centralized filters, API response caching, and shared reactive state across components like tables, charts, and export tools.

- **JavaScript & TypeScript**: Developed modular, type-safe components with TypeScript and modern JavaScript (ES6+), handling async API calls, dynamic rendering, and reusable utility functions.

- **JSON & JWT**: Integrated secure REST APIs using JSON and implemented JWT-based authentication with token storage and protected route access via headers.

- **Library & Software Upgrades:** Served as the primary engineer responsible for upgrading business-critical software projects and internal libraries from .NET Framework 4.7.1 to 4.8.1 and DevExpress 16.2 to 23.1.5, ensuring seamless transitions and full system compatibility across applications in **Reset**. Worked under the guidance of the Head of Architecture, collaborating closely to execute a smooth and efficient upgrade process.

- **Clean Architecture Implementation:** Applied Clean Architecture principles with hands-on experience implementing MediatR patterns, enhancing modularity and streamlining communication between components in enterprise-level applications.

SBS Transit Ltd   **Singapore**
Assistant Engineer   **Jul 2017 – Oct 2022**
SBS Transit Ltd provides bus and rail services to millions of commuters in Singapore, operating over 220 bus services with a fleet of 3,572 buses. It manages the fully automated North East Line, Downtown Line, and Sengkang-Punggol LRT, ensuring high reliability and efficiency. The company oversees 78 rail stations and employs around 9,963 staff. In 2023, it reported revenues of approximately S$1.14 billion.

- **System Troubleshooting & Maintenance:** Provided first-line troubleshooting and root cause analysis for Linux-based servers, Cisco routers & switches, PLCs, and Windows 7 workstations on the North East Line, ensuring minimal downtime. Later took on a leadership role, overseeing daily operations, task delegation, and issue resolution.

- **Software Deployment & Compliance:** Coordinated testing, deployment, and validation of software releases and patches in collaboration with contractors and LTA. Supervised bi-annual backups of critical servers, ensuring compliance, system integrity, and business continuity.

EDUCATION
National University of Singapore
Bachelor of Technology in Software Engineering   Aug 2019 – Aug 2023
Ngee Ann Polytechnic
Diploma in Electrical Engineering   Apr 2013 – May 2015

TECHNICAL SKILLS
Programming Languages: C++, C#, VB.NET, TypeScript, JavaScript
Web Frontend & Backend: .NET Core, ASP.NET, Vue.js, React.js, DevExpress
Frontend Technologies: Databases & Query Languages: MSSQL, MongoDB, Linq
Testing & Quality Assurance: NUnit, Test-Driven Development (TDD)
CI/CD & Build Automation: TeamCity, Jenkins, MsBuild, Powershell, Bash, Cmake
Version Control & Collaboration: Git, GitHub, Bitbucket, Jira, Confluence
Software Architecture & Patterns: Clean Architecture, Repository Pattern, MediatR, Domain-Driven Design
Agile & Development Practices: Scrum, Sprint Planning, Pair Programming, Retrospectives