Pramoch Viriyathomrongul

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SUMMARY

Software Engineer with over 5 years of experience specializing in full-stack web development and extended reality (XR) applications. Experienced in leading engineering teams through complex technology migrations and architectural transformations. Passionate about building products that simplify people's lives and drive meaningful business outcomes.

EDUCATION

- **Bauhaus Universität Weimar** — Weimar, Germany
  Master of Science in Computer Science; GPA: 1.70 — *Oct 2021 - Apr 2025*

- **Mahidol University** — Bangkok, Thailand
  Bachelor of Science in Information and Communication Technology — *Jun 2011 - May 2015*

EXPERIENCE

- **Independent Software Developer** — Leipzig, Germany
  Bauhaus Universität Weimar — *Jan 2023 - Jan 2025*
  - Developed and delivered several XR applications including a co-located mixed-reality onboarding system, a social VR gallery showcasing non-photorealistic shading techniques, and a multi-user virtual exploration platform — **featured at an IEEE conference**, CHI conference and available on Meta Horizon Store. Projects involved scalable system design, real-time processing, and networked collaboration using C#, Unity, Photon, ShaderLab, and Meta XR SDKs.

- **Senior Software Engineer** — Bangkok, Thailand
  Agoda — *Jul 2018 - Sep 2021*
  - **.NET Core Migration**: Led a team of 7–10 engineers in migrating a web application from .NET Framework to .NET Core, enabling Linux server deployment. This migration yielded operational cost savings of $1–2 million, reduced server-side latency by approximately 250ms, and cut client-side load time by about 500ms at the 90th percentile.
  - **React Architecture Rebuild**: Re-engineered the website from a server-side application to a component-based React architecture, reducing server-side load times from over 1000ms to 200ms and client-side page load times from over 8000ms to 2200ms at the 90th percentile.
  - **TypeScript Adoption**: Transitioned the client-side codebase from JavaScript to TypeScript, decreasing production bugs through static type checking and improving long-term maintainability.
  - **GraphQL Integration**: Spearheaded an engineer team in integrating GraphQL into the web application, achieving a 40% reduction in pull requests across both front-end and back-end repositories and accelerating market delivery timelines.
  - **Gateway PoC**: Led a proof of concept comparing Node + Apollo and Scala + Sangria frameworks, guiding the front-end department in selecting a new gateway service.
  - Developed real-time graphs, metrics, alarms, and monitoring dashboards to display live system status on production servers.
  - Managed responsibilities across 2 Scrum teams concurrently, ensuring efficiency and meeting the project timelines.
  - Actively participated in recruitment and mentorship programs, contributing to team growth and knowledge sharing.

- **Software Engineer** — Bangkok, Thailand
  Agoda — *Jun 2015 - Jun 2018*
  - **VB to C# Overhaul**: Transitioned server-side code from VB to C#, dramatically reducing web service response times from seconds to milliseconds and improving integration with .NET libraries.
  - Collaborated with product and technical teams to deliver high-quality software solutions, consistently meet KPIs.

- Integrated a microservices architecture into the web application, enhancing performance, reducing frontend code complexity, and clarifying system responsibilities.
- Implemented best practices such as A/B testing, code quality assurance, and the design of scalable architectures.
- Led the development of strict API coding standards across both front-end and back-end teams, which reduced bugs, minimized technical debt, and improved overall code quality.
- Provided on-call support to ensure system reliability and uptime.

- **Software Developer Internship** Chemnitz, Germany
  Technische Universität Chemnitz *Jun 2014 - Aug 2014*
  - Developed an application for a hardware-in-the-loop system using the Digilent Electronics Explorer board, supporting the teaching of digital systems fundamentals and rapid prototyping techniques using C and Java.

Programming Skills

- **Core Expertise**: C#, .NET, JavaScript, TypeScript, React
- **Web Development Stack**: Java, GraphQL, SQL, HTML, CSS, Sass, Bootstrap, Git, Selenium, Kibana, Grafana, Jest, Mocha, Chai, NUnit, xUnit, Vite, jQuery, Elasticsearch, MSSQL
- **XR Development Stack**: Unity, Unity Netcode, Meta XR SDKs, XR Interaction Toolkit, Photon Engine

Languages

- **English**: Professional working proficiency
- **Thai**: Native proficiency