

# Pramoch Viriyathomrongul

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Leipzig, Germany

## SUMMARY

Software Engineer with over 5 years of experience specializing in full-stack web development and XR application. Experienced in leading engineering team through 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: 1.7* Oct 2021 - Apr 2025
- **Mahidol University** Bangkok, Thailand  
*Bachelor of Science in Information and Communication Technology* Jun 2011 - May 2015

## EXPERIENCE

- **Software Developer** Leipzig, Germany  
*Bauhaus Universität Weimar* Mar 2023 - Mar 2025
  - Developed several XR applications including a co-located mixed-reality onboarding system, a social VR gallery, and a multi-user VR exploration — some **features at IEEE conference**, CHI conference and available on Meta Horizon Store. Projects involved real-time processing, and networked collaboration using C#, Unity, and Photon.
  - Developed new argument search engine functionalities, including date-based filtering, user feedback systems, and a Lucene-to-Elasticsearch migration, using Java, Apache Lucene, and Elasticsearch.
  - Developed a web-based photovoltaic calculation platform featuring real-time weather integration, automated data collection, and detailed reporting to optimize solar energy planning, using ASP.NET Core, JavaScript, and SQLite.
- **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 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 FE and BE repositories and accelerating 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, alarms, and monitoring dashboards to display live status of production servers.
  - Managed responsibilities across 2 Scrum teams concurrently, ensuring efficiency and meeting the project timelines.
  - 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.
  - **Microservice Architecture:** Integrated microservice architecture into the web application, enhancing performance, reducing frontend code complexity, and clarifying system responsibilities.
  - Collaborated with product and technical teams to deliver high-quality software solutions, consistently meet KPIs.
  - Implemented best practices such as A/B testing, code quality assurance, and the design of scalable architectures.

- 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

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- **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

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