

# Pramoch Viriyathomrongul

<https://pramoch.netlify.app>

<https://linkedin.com/in/pramoch>

Email : [pramoch.viriyathomrongul@gmail.com](mailto:pramoch.viriyathomrongul@gmail.com)

Mobile : +49-15120482131

Leipzig, Germany (Open to Relocation)

## SUMMARY

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Software Engineer with 6+ years of professional experience specializing in full-stack web development and additional experience in XR applications, recently completed a Master's degree in Computer Science. Experienced in leading engineering teams through technology migrations and architectural transformations.

## EDUCATION

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- **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

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- **Bauhaus Universität Weimar** Weimar, Germany  
*Software Developer (Projects)* Apr 2022 - Apr 2025
  - Developed a collaborative task management web app featuring real-time team collaboration via SignalR, task boards similar to Jira, built with React, TypeScript, Material UI, ASP.NET, PostgreSQL, and automated deployment/testing with Docker, Azure, Jest and GitHub Actions.
  - Developed a web-based photovoltaic platform with real-time weather integration, automated data collection, and reporting to optimize solar energy planning, using Javascript, Leaflet, D3.js, ASP.NET, SQLite, and xUnit.
  - Developed new functionalities for an argument search engine, including date-based filtering, user feedback systems, and a Lucene-to-Elasticsearch migration, using Java, Apache Lucene, and Elasticsearch.
  - Developed a console app for teaching the Alloy modeling language, featuring exercises, instant feedback, and model visualization using Java and Alloy API.
  - Developed several XR applications including a co-located mixed-reality onboarding system, a social VR gallery, and a multi-user VR exploration features at IEEE conference and available on Meta Horizon Store. Projects involved real-time processing, and networked collaboration using C#, Unity, and Photon Engine.
- **Agoda Co., Ltd.** Bangkok, Thailand  
*Senior Software Engineer (Search Results Team)* Jul 2018 - Sep 2021
  - **.NET Core Migration:** Led a team of 7–10 engineers in migrating a web application from legacy .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 90th percentile.
  - **GraphQL Integration:** Led a team of 7–10 engineers integrating GraphQL into the web application, reducing pull requests by 40% across front-end and back-end repositories and accelerating development cycles.
  - **React Architecture Rebuild:** Rebuilt website architecture from server-side rendering to component-based React, improving server-side load times by 800ms and client-side performance by 5000ms at 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.
  - **Monitoring System:** Built real-time Grafana and Kibana dashboards to monitor production server health, improving issue detection and response times.
  - 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.
- **Agoda Co., Ltd.** Bangkok, Thailand  
*Software Engineer (Search Results Team)* Jun 2015 - Jun 2018
  - **Microservice Architecture:** Integrated a microservice architecture into the web application, improving performance, simplifying frontend complexity, and clearly defining system responsibilities.
  - **VB to C# Overhaul:** Transitioned legacy Visual Basic backend codebase to C#, significantly reducing response times from seconds to milliseconds and improving .NET library integration.

- Implemented best practices such as A/B testing, code quality assurance, and the design of scalable architectures.
- Collaborated with product and technical teams to deliver high-quality software solutions, consistently meet KPIs.
- Provided on-call support to ensure system reliability and uptime.

- **Technische Universität Chemnitz**  
*Software Developer Internship*

Chemnitz, Germany  
*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, Java and JNI.

## TECHNICAL SKILLS

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- **Core Expertise:** C#, ASP.NET, TypeScript, JavaScript, React
- **Tools & Platforms:** Azure, Docker, Grafana, Kibana, Netlify, Linux, Git, GitHub Actions, GitLab, Jira
- **Web Technologies:** Java, Express, PostgreSQL, SQLite, MSSQL, GraphQL, Elasticsearch, HTML, CSS, Sass, Bootstrap, Material UI, Vite, Jest, Mocha, Selenium, xUnit, jQuery, Leaflet, D3.js
- **XR Technologies:** Unity, Unity Netcode, Meta XR SDKs, XR Interaction Toolkit, Photon Engine

## LANGUAGES

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- **English:** Professional proficiency
- **Thai:** Native proficiency
- **German:** Basic proficiency (A1)