

# Supanat Suriyodorn

608-895-1347 – zikxewen@gmail.com – <https://zikxewen.vercel.app>

## EDUCATION

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### University of Wisconsin-Madison

Bachelor of Science – Computer Engineering

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Madison, WI

08/2022 - 12/2025

GPA: 3.99

Dean's Honor List: All semesters

Relevant Coursework: Software Engineering, Introduction to Operating Systems, Mobile Computing Laboratory, Introduction to Computer Architectures, Building User Interfaces, Introduction to Algorithms, Digital System Design and Synthesis, Discrete Mathematics

## EXPERIENCE

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### Agoda Company Limited

Backend/Fullstack Software Engineering Intern

Bangkok, TH

06/2024 - 09/2024

- Redesigned features from legacy codebases (e.g. a huge .NET WCF monolith) into the more maintainable and scalable micro-services in Scala and Kotlin.
- Investigated and optimized database accesses, utilizing MS SQL stored-functions and an internal ORM.
- Leveraged other tools such as Docker, GitLab CI/CD, Consul, Vault, Swagger, and Kafka.

### Agoda Company Limited

Frontend/Fullstack Software Engineering Intern

Bangkok, TH

06/2023 - 09/2023

- Optimized the latency of React web pages and .NET C# backend services with concurrency optimizations.
- Monitored performance gains with Kafka messaging and Grafana metrics visualization.
- Utilized other infrastructure tools such as GitLab CI/CD, GraphQL, Docker, and Consul.

## PROJECTS

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### Programming.in.th

- Collaborated in an open-source team, developing a high-traffic competitive programming platform with 20,000+ users.
- Contributed to the main site using Typescript, Next.js, React, Tailwind, SWR, and Prisma with a PostgreSQL database.
- Other backend services for real-time submission processing were mainly written in Rust, leveraging asynchronous programming with Tokio runtime and message-driven architecture via RabbitMQ.

### Minispark

- Designed and implemented a data processing framework like Apache Spark in C, supporting parallel RDD transformations via multithreaded DAG execution.
- Implemented a custom thread pool and metric subsystem to manage parallel task execution, utilizing synchronization primitives such as mutex locks and conditional variables.

## AWARDS

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### The 14<sup>th</sup> Thailand Olympiads in Informatics

Gold Medal

### Selection of National Representative for The International Olympiads in Informatics

Finalists

## SKILLS

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### Programming Languages

C, C++, Rust, Python, Java, Go, JavaScript, TypeScript, CSS, HTML, SQL, Kotlin, Scala, C#, Lua, Haskell

### Frameworks

React, Svelte, Next.js, Vite, ElectronJS, Astro, .NET, Tokio, Django, Flask, Tailwind

### Tools/Platforms

GitLab, GitHub, Docker, Grafana, Jira, RabbitMQ, Kafka, Bash, Linux