# Patsakorn Boonkerd

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## EXPERIENCE

**Agoda**                                                                    September 2024 – March 2025 (6 months)
*Contract Software Developer (Backend)*                                                       *Bangkok, Thailand*
- Implemented client library for .NET Core application to avoid other services calling the API directly
- Onboard an application to use consumer and provider contract test using Pact to test for discrepancies while migrating said client library
- Oversee interns on how to migrate an application to use the new client library, and how to create Pact consumer and provider tests
- Implemented a kill switch while migrating the application to use in an emergency in case the application failed
- Migrated Kotlin Spring framework application Kafka instead of Rabbit MQ
- Onboard applications for disaster recovery by deploying to multiple datacenter using active-passive topology

**Freelance**                                                                    May 2024 – July 2024 (2 months)
*Freelance Full Stack Software Engineer*                                                       *Bangkok, Thailand*
- Integrated crypto payment gateway solution (OxaPay) for an online entertainment website
- Developed user authentication and reset password functionalities using SolidJS and ExpressJS

**Agoda**                                                                    August 2023 – April 2024 (8 months)
*Software Engineer Intern (Backend)*                                                           *Bangkok, Thailand*
- Integrated code coverage tool into the GitLab CI pipeline to block any merge requests with insufficient tests
- Developed new API endpoint using .NET Core to automate previously manual process reducing a multi-day process to few minutes
- Automate email sending system to eliminate the need to manually send email to partners
- Migrated large .NET Framework legacy application to .NET Core and deployed to Istio service mesh
- Created new data visualization dashboard using SQL in Apache Superset

## EDUCATION

**Mahidol University International College**                                                   Nakhon Pathom, Thailand
*Bachelor of Science in Computer Science, Minor in Japanese*                                    *Sep. 2019 – Jul. 2024*

## PROJECTS

**Homelab** | *Kubernetes, Proxmox, Docker, Portainer, Tailscale*
- Installed and configured Proxmox Virtual Environment on a personal server
- Configured Kubernetes cluster on the server to make the applications scalable
- Configured cert-manager with nginx ingress controller to get SSL certificate
- Installed Prometheus and Grafana, and create dashboard to monitor nginx ingress
- Utilized Portainer to host various web applications and game servers on the VM
- Integrated Tailscale and WireGuard tunneling to enable secure remote access to local server and to bypass CGNAT
- Host personal dev-blog using this server, and configured GitHub Action with RSync to make deployment easier

**Rust Chip8** (source) | *Rust, winit, cpal, pixels*
- Developed an intepretor for Chip-8 programming language
- Used low level crates such as winit and cpal
- Implemented all opcodes according to the original specification
- Utilized multithreading to get accurate CPU cycle timing

## TECHNICAL SKILLS

**Tools**: GitLab CI/CD, GitHub Action, Docker, Proxmox, Bash, Git, Unix, AWS
**Languages**: Java, Python, Rust, C, Scala, Kotlin, MySQL, HTML/CSS, JavaScript
**Framework**: .NET Core, .NET Framework, SolidJS, ExpressJS, Spring

## LANGUAGES SKILLS

**Thai**: Native
**English**: C1 (IELTS 7.0)