

# WARISA THIAMTHONG

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Portfolio: [https://warisatt.github.io/resume\\_static\\_web/index.html](https://warisatt.github.io/resume_static_web/index.html)

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## SUMMARY

Backend Software Engineer with experience in Golang, C# (.NET), and Java Spring Boot, developing secure RESTful APIs and scalable backend systems. Experienced in authentication (OAuth2, OpenID Connect), database design, robotics vision systems, and industrial automation environments. Strong analytical thinker with real-world experience integrating software with hardware systems. Seeking Backend, Full Stack, or AI Integration Engineering roles where system architecture, automation, and intelligent backend design are core priorities.

## PROFESSIONAL EXPERIENCES

### Automate-2015 - Automation Startup (Robotics & Industrial Systems)

**Bangkok, Thailand**

*Software Engineer (Part-Time)*

*Oct 2025 – Present*

- Developed and optimized robotic automation systems, including robot training and workflow calibration in real industrial environments.
- Designed and implemented Vision Machine logic using industrial cameras (exposure/gain configuration, image capture lifecycle, pattern matching).
- Implemented XY coordinate calculation algorithms enabling precise robot marking and object picking, including high-reflective metal components.
- Built control panel interfaces in Visual Studio to manage robot operations and improve usability for operators.

### Thai Roong Ruang Technology (Lin Sugar)

**Bangkok, Thailand**

*Software Developer Intern*

*Jan 2025 – Jul 2025*

- Developed RESTful APIs using C# (.NET) with MVC architecture for enterprise logistics systems (BION & OLS), integrated with SQL Server.
- Designed and optimized Stored Procedures (CRUD + Business Logic), including data validation, duplicate prevention, and time-overlap control.
- Designed ER Diagrams and Data Dictionary documentation to improve system clarity and maintainability.
- Developed a Flutter mobile application integrated with backend APIs for outbound logistics weight calculation.
- Built Power BI dashboards and log analysis reports (Power Query M Language) to monitor ERROR/INFO patterns and support executive decision-making.

## EDUCATION

### King Mongkut's University of Technology Thonburi

**Bangkok, Thailand**

*Bachelor of Science in Information Technology*

*Aug 2022 – Jun 2026*

## SKILLS

- **Backend Development & System Architecture:** Golang (Fiber), C# (.NET/.NET 8), Java Spring Boot, RESTful API Design, MVC Architecture, Scalable System Design, API Structure Planning
- **Database & Data Engineering:** SQL Server, MySQL 8 (JSON Column), Redis (Caching, Rate Limiting, Session), Stored Procedures (CRUD + Business Logic), ER Diagram Design, Query Optimization, Database Schema Design, Data Validation
- **Authentication, Security & API Governance:** OAuth2, OpenID Connect, JWT Authentication, Firebase Authentication, Token Verification, Role-Based Authorization (RBAC), Secure API Design Principles
- **Robotics, Vision Systems & Industrial Automation:** Industrial Camera Programming, Vision Machine & Pattern Matching, Robot Training & Calibration, XY Coordinate Positioning, Industrial System Integration, Real-World Factory Deployment
- **Full Stack Development & System Integration:** HTML, CSS, JavaScript, Vue.js 3 (Composition API + Pinia), Flutter, UX/UI Design (Figma), Docker & Docker Compose, Nginx, CI/CD (GitHub Actions), Vercel, Railway, Postman
- **Professional Skills:** Cross-functional Teamwork, Technical Communication & Client Presentation, Adaptability in Fast-Paced Environments, Leadership & Ownership, Growth Mindset, AI Tools Analysis & Integration Concepts

- **AI Tools & Prompt Engineering:** LLM API Integration (OpenAI, Gemini), AI-Assisted Development (GitHub Copilot, Claude), Workflow Automation with AI Tools, AI Agent Tools for Code Review and Error Detection (Antigravity), AI Productivity Tools (Notion AI, Grammarly, Perplexity)

## CERTIFICATIONS

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- **Learning How to Learn** – *Coursera*: Applied cognitive learning frameworks (Focused/Diffuse Mode, Chunking) to accelerate technical skill acquisition.
- **Gemini Certified Educator** – *Google*: Certified in applying AI tools for workflow optimization and structured prompt engineering.
- **Gemini Certified Faculty** – *Google*: Trained in AI integration strategies and responsible AI implementation in professional environments.

## RELEVANT PROJECTS

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### **JOB SPARK** - *Secure Job Matching Web Application (Final Project)*

- Developed backend using Golang (Fiber Framework) with over 40 RESTful API endpoints.
- Integrated Firebase Authentication (OAuth2 / OpenID) with ID token verification and role-based authorization.
- Implemented ownership validation and business rule enforcement within API layers.
- Designed scalable system structure supporting secure authentication workflows.
- Conducted automated testing to ensure API reliability and maintainability.

### **KRADANKANBAN** - *Web Application*

- Developed a full-stack Kanban web application using Java Servlets, JavaScript, HTML, and CSS.
- Designed and implemented task creation, priority management, and workflow tracking features.
- Structured backend logic using servlet-based architecture and managed data flow between frontend and backend.
- Designed intuitive UX/UI prototypes using Figma to improve usability and task visualization.
- Strengthened understanding of end-to-end system flow from UI design to backend processing and workflow logic.

### **CLICK WORD (Spelling Game)** - *Web-Based Educational Game*

- Developed a browser-based vocabulary game using HTML, CSS, and JavaScript with word matching, scoring system, and interactive feedback.
- Designed intuitive UX/UI with focus on engagement, accessibility, and clean interface layout.

### **PLOY KONG** – *AI-Integrated Portfolio Platform*

- Built a full-stack No-Code portfolio builder using Go (Fiber) for backend, Vue.js 3 for frontend, and Flutter for mobile, enabling users to create and publish professional portfolios without writing code.
- Integrated multiple LLM APIs (OpenAI, Claude, Gemini) to experiment with AI-assisted features such as AI content generation, resume scoring, and interview coaching.
- Designed and implemented secure RESTful APIs using JWT authentication, MySQL 8, and Redis for session management and rate limiting, improving API performance and protecting against abuse.
- Architected and deployed the platform using Docker Compose with Nginx reverse proxy, automated SSL via Certbot, and CI/CD pipelines with GitHub Actions on a self-managed VPS environment.
- Delivered end-user features including One-Click portfolio publishing, PDF export, real-time visitor analytics (country, traffic source, daily views), push notifications with mobile app, password-protected sections, and temporary self-destructing links.

### **ROBOTICS VISION SYSTEM** - *Industrial Automation Project*

- Engineered vision detection logic using pattern matching for object recognition, orientation detection, and precise XY coordinate mapping for robotic marking and pick-and-place operations.
- Optimized image processing for high-reflective metal components and performed calibration, tuning, and real-environment industrial testing.

### **TRRCORP-BION** - *Bio-Energy Purchasing System*

- Developed backend services using C# (.NET) with SQL Server, designed stored procedures with business rules, and implemented notification features for capacity monitoring.

### **TRRCORP-OLS** - *Outbound Logistics Mobile System*

- Developed Flutter-based mobile application connected to .NET backend APIs, with weight-in/weight-out management, net weight calculation, and system deployment testing.