

# WATCHARAPONG RODPONG

<https://w-rodpong.vercel.app>

<https://github.com/Lighting1427>



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## Skills

- **Languages:** Python, TypeScript, JavaScript, SQL, PHP
  - **AI/ML & LLM:** PyTorch, TorchVision, Scikit-learn, Pandas, NumPy, RAG, LLM
  - **Frontend:** React, Angular, Vite, Tailwind CSS
  - **Backend:** Node.js, Express.js, FastAPI
  - **Databases & Tools:** MySQL, MS SQL Server, PostgreSQL, Docker, Git
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## Work Experience

### Participant

#### Super AI Engineer Season 6

March 2026 – Present

- Selected as **1 of 157 Level 2 participants** from **10,457+ applicants** in a national **AI Engineer program**.
- Applied AI/ML techniques across 5 domains: **image processing, signal processing, NLP, data analytics** and **IoT**.
- Developed projects in heart disease prediction, house recognition, Thai word segmentation, Thai image captioning, and retail **RAG** question answering.

### Full Stack Developer

#### HumanSoft

October 2025 – May 2026

- Developed and maintained **internal operation tools** for **Customer Center, Follow Up, Account Link, and reporting workflows**, supporting customer service and business operation teams.
- Improved reporting efficiency by building searchable tables, advanced filters, detail views, **Excel/CSV exports**, and report workflows for business users.
- Integrated **Angular frontend** pages with **PHP/SQL backend APIs** to support customer data retrieval, follow-up submission, account linking/unlinking and report export workflows.
- Enhanced **production reliability** by **optimizing API/query logic** and resolving UI overflow and loading-state issues.

### Software Developer

#### Internship: Witsawa Corporation

December 2024 – March 2025

- Designed and developed **responsive frontend pages** using **React, TypeScript, Vite, and Tailwind CSS**.
  - Integrated **payment APIs** with **frontend workflows**, enabling users to complete payment-related actions through the web interface.
  - Built reusable UI components and page layouts to improve consistency, usability, and development efficiency.
  - Collaborated with senior developers in **Agile/Scrum** workflows to deliver frontend features and API integrations.
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## Projects

### Digital Life Journal – The NorthStar

**Tech:** React, Vite, Tailwind CSS, Jotai, Node.js, Express, MS SQL Server, JWT

- Built a full-stack life planning app with Dream Board, Weekly Compass, and Nightly Ritual modules.
- Implemented JWT authentication and protected CRUD APIs for user goals, tasks, and weekly plans.
- Improved planning workflow with progress tracking, responsive dashboards, and structured task management.

### Intel Scene Classification with PyTorch

**Tech:** Python, PyTorch, TorchVision, EfficientNet-B2, CNN, Transfer Learning

- Trained a scene classification model across 6 categories using PyTorch and EfficientNet-B2.
- Improved prediction quality by comparing a baseline CNN with transfer learning.
- Built an end-to-end pipeline for preprocessing, training, evaluation, and inference.

### Fah Mai Retail RAG System

**Tech:** Python, BGE-M3, BM25, RRF, Cross-Encoder Reranking, Typhoon LLM API

- Built a Thai RAG QA system for 300 competition questions using hybrid retrieval and LLM prompting.
  - Improved answer grounding with BM25, BGE-M3, RRF, Cross-Encoder reranking, and context-bound prompts.
  - Automated Kaggle-ready CSV submission generation from retrieved evidence and LLM outputs.
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## Education

### Naresuan University

**Bachelor of Engineering Program in Computer Engineering, GPA 3.31**

**Phitsanulok, Thailand**

Graduation: April 2025

### Certifications

- **Certiport IT Specialist – Data Analytics (December 2025)**
- **Google Cybersecurity (February 2024)**