Tanapol Prucksakorn

https://tanapol.dev

SKILLS

• Programming:

- Rust: My favorite programming language. Started since 2019. See projects below for my Rust experiences.
- o Python: My current go-to language for development. It is the programming language I am using at work and in research.
- TypeScript, JavaScript: Experienced with React-TypeScript (at work), Vue-js (my homepage)
- \circ C/C++: Able to read/understand/modify C and C++ code.

• Development Experience:

- o Infrastructure: AWS: lambda, S3, EC2, SQS, SNS, API Gateway, Amplify, AppSync and Quicksight. Tools: Terraform
- o Microservices: Built and transformed part of an old code-base to microservices.
- $\circ\,$ Database: PostgreSQL and SQLite
- Machine learning: Reinforcement learning, developmental learning, neural networks (Doctor, Master's). Able to read and implement things from academic papers.
- Networking: Surface level of understanding. Experience of deploying an HTTPS server, a private DNS, and a private VPN in a small home-lab.
- Learning skills: Capable of adapting and learning new technologies quickly.
- Languages: Thai: Native, English: Proficient, Japanese: Intermediate (JLPT N2)

EXPERIENCE

Dynamic Map Platform

Tokyo, Japan

Software Engineer

January 2021 - Present

Email: me@tanapol.dev

• **Development**: Experienced in development with people across countries between the team in the U.S., Australia, and Japan. Refactored the old code-base to be more readable and reusable. Create unit tests for the existing code. (Python, PostgreSQL)

QBIT Robotics

Tokyo, Japan

Software Engineer (Full Stack)

Mar 2019 - January 2021

- Omotenashi Engine: Design and implement the foundation of the Omotenashi Engine that is used in &robot café. Maintain and review the source code. (Python)
- Robot experiences: Migrate the code base to microservices. Create an API for controlling a robot arm (wrapping the existing API) such as XArm, UR5 Robot Arm, Sawyer, and Melfa Assista. (Python)
- **Delivery Robot (NEDO)**: Develop the front-end web-interface, the back-end infrastructure for delivery robot with Serverless concept in mind. (React, TypeScript, Terraform, AWS, Amplify)
- Other experiences: Refactor existing code to be more scalable and readable. Mentor juniors. Utilize the commonly available tools and practices: AWS services, CI/CD, Build Automation, Data Analysis, Event Sourcing, React, Django, Doelson.

Japan Advanced Institute of Science and Technology

Ishikawa, Japan

Research Assistant

Teaching Assistant

Nov 2014 - Apr 2018 us Learning of Active

- o Japanese-German Collaborative Research on Computational Neuroscience: Autonomous Learning of Active Depth Perception: from Neural Models to Humanoid Robots: Implement a biological inspired active depth perception framework for robots. Main components of the research were sensory coding: active efficient coding theory, reinforcement learning, and neural network. (MATLAB, V-REP, Python)
- Sirindhorn International Institute of Technology, Thammasat University

Pathum Thani, Thailand

May 2012 - May 2013

• **Lecture&Teaching**: Give lectures on basic electronics. Teaching assistance on Mobile Application Programming Course. (Objective-C)

Projects

- Rust mini projects: github.com/zynaxsoft/{ mycraft-rs smol_webhook, belowtherocks, ray-tracing } and more.
- https://tanapol.dev: My website. Check github.com/zynaxsoft/tanapol.dev for more details. (JavaScript, Vue-js, CSS, Docker, NGINX)
- Drones: Built Tri-copter and Quadrotor for projects in Bachelor's degree. They are built from scratch by using Arduino, XBee, IMU, ESC, and brush-less motor (MATLAB, C)

EDUCATION

Japan Advanced Institute of Science and Technology

Ishikawa, Japan

• Doctor of Philosophy (Ph.D.), Robotics, School of Information Science Master's degree, Robotics, School of Information Science Oct 2015 - Dec 2018 Oct 2013 - Sep 2015

Sirindhorn International Institute of Technology, Thammasat University

Pathum Thani, Thailand

Bachelor's degree, Electronics and Communication Engineering

May 2009 – Apr 2013