Tanapol Prucksakorn

https://tanapol.dev

SKILLS

- Programming:
 - Rust: My favorite programming language. Started since 2019. See projects below for my Rust experiences.
 - Python: My current goto language. Main development programming language at work and in research.
 - \circ C/C++: Can read and understand average C and C++ code.
- Development Experience:
 - Microservices: Building and transforming to microservices at the current company.
 - o Cloud: AWS: lambda, S3, EC2, API Gateway, and Quicksight.
 - o Database: SQLite and Basic knowledge of SQL
- 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 private DNS and 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

QBIT Robotics

Tokyo, Japan

Email: me@tanapol.dev

Software Engineer Mar 2019 - Present

- 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 Restaurant OS: Migrate the code base to microservices. It is the core of the &robot café, a robot coffee/drink server. (Python)
- Other experiences: Create an API for controlling a robot arm. 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, Docker.

Japan Advanced Institute of Science and Technology

Ishikawa, Japan

Research Assistant

Nov 2014 - Apr 2018

- o Japanese-German Collaborative Research on Computational Neuroscience: Autonomous Learning of Active Depth Perception: from Neural Models to Humanoid Robots: The main goal of the research is to implement a biological inspired active depth perception framework for robots which is developmental and has the ability of self-calibration. 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

 Teaching Assistant

 May 2012 May 2013
 - Lecture&Teaching: Give lectures on basic electronics. Help and teach students on basic electronics, such as creating a circuit with various components. Help students to create a mobile application with Xcode in Mobile Application Programming Course. (Objective-C)

Projects

- Rust mini projects: github.com/zynaxsoft/{ mycraft-rs smol_webhook, secret-png, ray-tracing } and more.
- https://tanapol.dev: My website. Check github.com/zynaxsoft/tanapol.dev for some details. (JavaScript, Vue-cli, 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