Teerachot Khusuwan

Tel: 095-847-0305 | Email: teerachot.khusuwan@gmail.com | GitHub: HamGNX

Education

Sirindhorn International Institute of Technology, Thammasat University — B.Eng. in Computer Engineering

Expected Graduation: 2026 | Cumulative GPA: 2.53

Projects

SQLiX – SQL Injection Detection System | *Python, Flask, Regex, Petri Nets*

- Developed a multi-layered detection framework (Regex → Keyword Randomization → Boolean-based → Petri Nets).
- Implemented real-time alerts with detailed logs sent to Discord for threat response.

Taek8 – Discord TFT Match Tracker | *Python, Riot API, Nextcord*

- Built a Discord bot that tracks TFT matches for multiple players.
- Automates scoreboards (daily/all-time), sends alerts for 8th-place finishes, and integrates voice notifications.

Visual Acuity Screening System | *Python, OpenCV, Arduino*

- Automated hospital vision screening by displaying randomized numbers and validating patient responses.
- Reduced manual workload for medical staff.

Clinic Appointment System | *PHP, MySQL, HTML/CSS*

- Built a web platform for scheduling and managing appointments.
- Incorporated patient records and doctor data management in a centralized system.

Publications

Automated Detection and Segmentation of Choroidal Neovascularization in OCT Using Deep Learning

*Pawaris Panyasombat, Anawin Srivoranan, Chanyanud Sriyota, **Teerachot Khusuwan**, and Pakinee Aimmanee*

Accepted for publication in *Science and Technology Asia*, ANSCSE28 Special Issue, 2025.

Technical Skills

- **Languages**: Python, Java, PHP, C/C++, MATLAB, HTML, CSS, MySQL, Arduino
- **Tools & Frameworks**: Flask, Nextcord, Logisim, Logicworks, OpenCV, Git
- **Other**: SQL Injection Testing, Machine Learning (classification, detection models)

Leadership & Activities

- **Robotics & Programming Camp (2018)** — Built smartphone-controlled Bluetooth robots at Mahanakorn University of Technology.
- **SIIT First Meet Staff (2023)** — Contributed with event logistics as a parcel staff member.
- **Buddhist Volunteer Camp (2024)** — Organized a two-day camp for children at Suan Buddakan Meditation Center, Loei Province.
- **Hackathon Staff – ScamMBled: Cracking the Scam (2025)** — Contributed as welfare support staff.

Certificates

- MathWorks: MATLAB Fundamentals