# THANAPHAT TANGCHAM

Address:     Pathum Thani, Thailand
Phone:       (+66) 82 036 0050
Email:       tangcham.thanaphat@gmail.com
GitHub:      github.com/9thanaphat
Website:     9thanaphat.vercel.app
LinkedIn:    linkedin.com/in/9thanaphat

## SUMMARY

Computer Engineering student at Rajamangala University of Technology Thanyaburi (RMUTT) with a strong interest in full-stack web development.
Hands-on experience building web applications using modern frontend and backend technologies.
Seeking a software engineering internship to gain practical experience and contribute to real-world projects.

## TECHNICAL SKILLS

- Programming Languages: C, C++, Python, JavaScript, TypeScript, Java
- Frontend: HTML, CSS, React, Tailwind CSS
- Backend: Node.js, Express.js
- Database: PostgreSQL, MySQL, MongoDB
- Tools: Git & GitHub, Docker, Postman, Linux

## EDUCATION

**Rajamangala University of Technology Thanyaburi (RMUTT)**

Bachelor of Engineering in Computer Engineering

- GPA: 3.25
- Period: July 2023 - Expected March 2026
- Relevant Courses: Data Structures & Algorithms, Database Systems, Server Programming, Object Oriented Programming, Computer Architecture and Organization, Operating Systems

## TRAINING / PROGRAM

**42Bangkok (Programming School)**

Software Engineering Curriculum

- Period: August 2024 - Expected April 2026
- Key Focus: Unix/Linux Systems, Algorithms & Logic, System Programming

## PROJECTS

**Thesis Submission and Validation System (Ongoing)**
- Engineered an automated thesis validation system that processes PDF documents to verify compliance with university formatting standards (A4, margins, fonts), reducing manual verification time.
- My Role: Backend Automation & Core Validation (using Python and PyMuPDF)
- Tech Stack: React, NestJS, TypeScript, Python, PyMuPDF, PostgreSQL, Docker

**PC Builder Web application**
- A web platform that allows users to create custom PC builds, featuring interactive component selection and automated build summaries.
- Tech Stack: React, JavaScript, Tailwind CSS, MongoDB

**Smart Hydroponics Control & Monitoring System**
- Built a smart farm prototype using ESP32 to collect sensor data and sync with a MySQL database, enabling users to view humidity/temperature stats and trigger device actions via a PHP web interface.
- Tech Stack: PHP, HTML, Bootstrap CSS, MySQL, IoT Integration

**Cub3D Ray-Casting Engine**
- Developed a first-person 3D graphical engine using ray-casting algorithms (DDA) to render 3D perspectives from a 2D map, featuring collision detection and texture mapping.
- Tech Stack: C, MLX42 (graphics library)