Pemika Chongkwanyuen

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TECHNICAL SKILLS

- **Languages:** SQL, Shell Script, Python, C/C++, JavaScript, Verilog HDL

- **Frameworks & Tools:** Google Cloud Platform, BOTNOI Platform, Tableau, Power BI, Docker, Pinecone, n8n, Figma, Git/GitHub, Xilinx Vivado, Pandas, TensorFlow, Keras, Scikit-learn, NumPy, NodeJS, LaTeX

- **Special Skills:** Chatbot Development, Data Analysis

PROJECTS

- **Domacod — National Software Contest 2022 (1st Runner-up)** (VDO)
  Mobile application for content-based image indexing using Object Detection & OCR. Backend with Google Cloud Vision API and Text Classification. Won 2nd place nationally with 40,000 THB prize.

- **PSU Chatbot — BOTNOI Chatbot Marahackathon 2022 (2nd Runner-up)** (VDO)
  Built chatbot for academic administration at Google Thailand. Automated PDF generation and database integration. Role: Developer, Pitch presenter, Coordinator.

- **Smart Elderly Care Service — ASEAN Data Science Explorers 2022 (National Finalist)**
  Proposed Caregiver Hub app connecting elderly with caregivers & communities. Selected as Top 10 teams in Thailand.

- **Sweeper Robot — Future Perfect Hackathon 2022**
  Designed autonomous cleaning robot with waste separation system. Focused on sustainability & recycling.

- **FPGA-Tetris — Verilog, Basys3 FPGA, Xilinx Vivado**
  Implemented the classic Tetris game on FPGA board using Verilog HDL. Designed game logic and hardware interface.

- **The Rich Hotel Rama V - Service Line & Facebook Chatbot — n8n, RAG, Pinecone, ngrok**
  Developed an AI chatbot for The Rich Hotel Rama V customer service on LINE and Messenger. Integrated Retrieval-Augmented Generation and Pinecone Vector Database with Workflow Automation.

- **Student Event Planner — React (Vite), Firebase**
  A web application to help students, lecturers, organizers, and admins manage and join university events.

ACHIEVEMENTS

- Undergraduate Academic Excellence Scholarship, Department of Computer Engineering, KMUTT (Top Academic Excellence Awarded from Semester 2/2023 to Semester 1/2025)

- The Professor Dr.TabNilanidhi Foundation — Science Education and Research Award 2023 (Outstanding Academic Achievement in Science, Undergraduate Year 1)

- ASEAN Data Science Explorers — National Finalist (2022)

- BOTNOI Data Science Essential 5

- BOTNOI AI Essential 1

- Google Data Analytics Certificate — Coursera

- Super AI Engineer Season 2 — Advance to Level 2 and be eligible to receive a 50,000 THB scholarship.

EDUCATION

King Mongkut's University of Technology Thonburi (Honors Program)   *Expected 2026*
Bachelor of Engineering in Computer Engineering
Dean's List, Outstanding Academic Achievement — GPAX: **3.94**
    Assumption College Thonburi (Enrichment Science Classroom Program)
GPA: 4.00   —   Mary's Honor Scholarship