JATURAPUT (MAC) JONGSUBCHAROEN

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LinkedIn | GitHub | YouTube | Portfolio

ROBOTICS ENGINEER
MACHINE LEARNING | DATA ANALYST | DATA SCIENTIST | FULL-STACK DEVELOPER

TECHNICAL SKILLS

Coding skill:	C#, HTML, CSS, JavaScript, JSX, Java, Python
Design Tools:	Figma, Sketch, Miro, draw.io, Visio, CLI, Photoshop, Illustrator, 2D AutoCAD, V-Ray, Enscape, Ableton, Power BI, Tableau
Development Tools:	GitHub, Postman, Render, Notepad++, IntelliJ, Eclipse, Visual Studio, Visual studio code, FileZilla, MongoDB Compass, SQL, Microsoft Office
Web Development:	React, Node, Express
Data Science & Machine Learning:	NumPy, Scikit-learn, Matplotlib, Pandas, Neurolab, Seaborn, Flask
Data Formats:	XLS, XLSX, JSON, CSV, Joblib, Pickle (.pkl)
Operating Systems:	Windows, Linux

SELECT ACADEMIC PROJECTS
Software Engineering Technology - Artificial Intelligence (Co-op) Advanced Diploma

Data Analysis & Machine Learning
- **Collision Fatality Prediction (Individual Project) – Deployed Website**
  - **Software and Tools:** HTML, CSS, JavaScript, Python | React | Trained ML Model (.pkl) | Render
  - **Main Libraries:** scikit-learn (including OneHotEncoder, Pipeline, and GridSearchCV), imbalanced-learn (SMOTE), NumPy, Pandas, Matplotlib, Seaborn, Joblib, Flask, CSV
  - This project analyzes traffic collisions in Toronto and predicts outcomes as Fatal/Non-Fatal, comparing the performance of KNN, Random Forest, SVM, Logistic Regression, and Neural Network models. It allows users to customize input values for both categorical and numerical features.

Web Design
- **Rent/Buy Movies (Individual Project) – Deployed Website**
  - **Software and Tools:** HTML, CSS | Photoshop | FileZilla
  - Designed streaming service website that announces movies. The design concept focuses on showcasing movie products and subpages that organize content by genre specifically.
- **Nutrition Application (Group of 5) – Deployed Website**
  - **Software and Tools:** HTML, CSS, JavaScript | React, Node, Express | GitHub, MongoDB Compass, Render | Photoshop | JSON
  - This website provides a feature for collecting Nutrition by filling in information or uploading a barcode image to retrieve the data from the backend. This also provides an AI-generated tool to generate calories and store them under a unique ID. All features were tied to user authentication; users without a user ID had to create one and log in first, with tokens used for verification.

Mobile App Design
- **Clinic Application (Individual Project) – Browser Link**
  - **Software and Tools:** Figma | Photoshop
  - This is a Clinic Mobile App design that mainly focuses on displaying the process of appointment and arrangement, matching the patient with available doctor schedules. This also provides additional features design such as AI Chatbot, Prescription, Prescription handling, medical news, and department navigation.

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Database Design
- **Amusement Park Database Management System (Group of 3) – [Presentation Link](#)**
  - **Software and Tools:** Oracle SQL Developer | draw.io, Visio
  - This database system provides a framework about the process of the connection between primary and reference keys for managing an amusement park's operations, displaying by using single table joins, and multi table combined with Sequences, Function, and Procedure organized into Packages.

EDUCATION

Software Engineering Technology - Artificial Intelligence (Co-op) Advanced Diploma   Jan. 2024 - Present
Centennial College, Toronto, ON, Canada   *GPA: 4.242/4.5*
Course:

AI Foundations	MongoDB and Full-Stack Web Development	Database Concepts (SQL)
C# Programming	Software Requirements engineering	Linux/Unix OS
Java programming	Supervised and Unsupervised Learning	Software System Design

Bachelor of Architecture (Architecture) – [Presentation Link](#)   Aug. 2016 – May 2021
King Mongkut's University of Technology North Bangkok, Bangkok, Thailand   *GPA: 3.39/4.0*
Course:

2D & 3D Design	Rendering & Visual Reality	Graphic Design
SketchUp Software	Photoshop & Illustrator Software	AutoCAD Software

WORK EXPERIENCE

Architect, Graphic Designer (Full-Time) – [Presentation Link](#)   Jan. 2022 – Nov. 2022
AWII House by WITTAWII, Bangkok, Thailand.
- Designed residential houses tailored to maximize customer requirements, combining functionality and aesthetic appeal.
- Prepared presentation slides to clearly communicate design concepts and deliver customized advice to meet client needs.

Server, Prep Cook (Part-Time)   Jan. 2023 – Apr. 2023
My Thai Kitchen Etobicoke, ON
- Provided exceptional customer service by ensuring and accurate order delivery to enhance satisfaction.
- Operated the cash register, processed payments accurately, and handled cash and credit transactions.
- Assisted in food preparation and maintained a clean and organized kitchen environment to uphold health

LICENSES & CERTIFICATIONS

Foundations of Cybersecurity – [Google Credential](#)   Jun. 2025
- Recognize core skills and knowledge needed to become a cybersecurity analyst.
- Explain security ethics and identify common tools used by cybersecurity analysts.