

# Ian Pang

617-803-5651 | [ianpang126@gmail.com](mailto:ianpang126@gmail.com) | [linkedin.com/in/pang-ian](https://www.linkedin.com/in/pang-ian) | [github.com/ianp-1](https://github.com/ianp-1)

## EDUCATION

### Purdue University

*Bachelor of Science in Computer Science, Bachelor of Science in Mathematics*

- Relevant Coursework: CS180 (Java), CS240 (C)

**Present – 2028**

*West Lafayette, IN*

## EXPERIENCE

### Undergraduate Student Researcher

*The Data Mine at Purdue*

**September 2024 – Present**

*West Lafayette, IN*

- Conducted data science research using Python and R to analyze and visualize large datasets, focusing on data cleaning, transformation, and interpretation.

### Software Engineer Intern

*Suga International Holdings Limited*

**June 2024 – July 2024**

*Hong Kong SAR*

- Developed computer vision AI models for dog/cat detection with  $\geq 99\%$  accuracy running on NVIDIA Jetson for commercial robotics applications.
- Utilized Python to efficiently preprocess and optimize image datasets with 80K+ images, streamlining model training and decreasing training time to save computing cost.

### Lighting Simulation Intern

*Green Light Multiplex*

**June 2023 – August 2023**

*Hong Kong SAR*

- Designed computer-simulated lighting models to increase energy efficiency in city applications.
- Implemented IoT/5G systems in lighting projects, securing two major public lighting contracts in Hong Kong.

### Team Member

*Chick-fil-A*

**July 2020 – December 2022**

*Burlington, MA*

## PROJECTS

### Bookshelf Scanner | *React, Python, Flask, Next.js*

**November 2024 – December 2024**

- Created a full-stack web application with a Flask backend and a REST API.
- Implemented OCR and LLM to extract book title data from images and retrieve book details.
- Used React frontend to display book reviews and descriptions from backend.

### Automation Extension | *Python, Flask, Chrome Extensions*

**October 2024 – December 2024**

- Built a Chrome Manifest V3 extension with a Flask backend to extract webpage elements and integrate with REST API for website automation.

### Peer Tutoring Scheduler | *React, TS, Firebase, Next.js*

**January 2024 – May 2024**

- Led a project to revamp a student-tutor scheduling system used by high school students.
- Implemented a full-stack web application with a Firebase SQL database and a React frontend.
- Utilized Google OAUTH 2.0 and email authentication for communication and data storage.

## TECHNICAL SKILLS

**Languages:** Python, Java, C/C++, JavaScript/TypeScript, HTML/CSS, R

**Frameworks/Libraries:** React, Flask, Next.js, TailWind CSS, REST APIs

**Computer Vision/AI:** YOLO, PyTorch

**Tools/Hardware:** Git, Visual Studio, VS Code, CLion, IntelliJ, Vim, Firebase

**Spoken Languages:** Trilingual in English, Mandarin, Cantonese