

# Andy Chak Shun Pang

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## EDUCATION

### CORNELL UNIVERSITY

BA IN COMPUTER SCIENCE AND  
PHYSICS, MINOR IN BUSINESS

Expected: May 2025 | Ithaca, NY  
College of Arts & Sciences

## SKILLS

### PROGRAMMING

Java • Python • JavaScript •  
TypeScript • Swift • C# •  
R • C++ • OCaml

### WEB & DATABASES

HTML • CSS • MySQL • Firebase  
• MongoDB

### FRAMEWORKS

ReactJS • Flutter • React Native •  
NextJS • Swift UIKit • Bootstrap

### TOOLS

VSCode • Visual Studio • Xcode •  
Unity • Eclipse •  $\text{\LaTeX}$  • RStudio •  
Bash • Git

## COURSEWORK

### COMPUTER SCIENCE

Algorithms & Data Structures  
Intro to Game Design  
Machine Learning  
Functional Programming  
Intro to iOS Development  
Modern Web Development  
Discrete Mathematics  
Object-Oriented Programming

### PHYSICS

Electromagnetism  
Special Relativity  
Mechanics and Heat

### MATHEMATICS

Differential Equations  
Probabilistic Modeling  
Multivariable Calculus  
Linear Algebra

## PROJECTS

### BABBLR | TEXT & SPEECH TRANSLATOR APP

- An iOS translator app that can auto-detect text and speech input language and translate to an output language
- Used **DeepL API** to translate between languages and **AssemblyAI API** for speech-to-text conversion
- Stores translated texts and speeches on database with **MongoDB**

### LUMIERE | MOVIES TRACKING & ANALYSIS APP

- An iOS tracker app that allows users to log, comment, and sort watched movies and future watchlists
- Handled over **1,000 reads & writes requests** on database within 2 days of being released on App Store
- Implemented **Email Authentication** system using **Firebase Auth** and data storage via **Firestore**

### PAC-MAN 3D | MULTI-PLATFORM ARCADE GAME

- Recreated the classic Pac-Man arcade game that can be played on Windows, macOS, and Linux
- Implemented **AI enemy** ghosts that are controlled by Unity **NavMesh Agents** that tactically follow the player
- Utilized Post-Processing and **Shader Graphs** to create immersive **VFX** for better gameplay experience

## EXPERIENCE

### AIGLON COLLEGE | IT SUPPORT TECHNICIAN

Jan 2020 – May 2021 | Chesières, Vaud

- Helped students install **school-based protocols** and related software
- Fixed hardware and software malfunctions on students' electronic devices
- Hosted **regular Q&A sessions** and provide support for students with questions in Computer Science courses

### AIGLON DEV TEAM | Co-FOUNDER, TECH LEAD

Sep 2019 - May 2021 | Chesières, Vaud

- Led a group of skilled developers to build apps to serve **400+ students and staff**
- Developed a web-based pre-ordering app for community cafes using **Google Apps Script** and **MySQL**
- Built a mobile messaging app that allows residential staff to check in with students when they leave the campus area with **Swift UIKit** and **ChatSDK Framework**