

Chi Che Colin Wu

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EDUCATION

Purdue University

B.S. in Computer Science

May 2026

West Lafayette, IN

- **Courses:** Data Mining & Machine Learning, Algorithms Analysis, Systems Programming, Data Structures and Algorithms, Computer Architecture, Discrete Math, Ordinary Differential Equations
- **GPA:** 3.37/4.0

EXPERIENCE

Undergraduate Data Science Researcher

The Data Mine, Purdue University

Aug 2024 – Present

West Lafayette, IN

- Collaborated with **PepsiCo** on a project to map environmental risks impacting manufacturing sites, focusing on predictive analysis for water-related risks.
- Developed a dashboard to provide predictions for extreme weather events (e.g., floods, droughts) and climate change impacts in states such as California, Texas, Colorado, and Florida.
- Utilized **GIS** and **Power BI** for data visualization and creating actionable insights to help optimize operations and mitigate environmental risks.

Machine Learning Intern

REVLIS Biotech Company Limited

May 2024 – Aug 2024

Taipei City, Taiwan

- Processed, cleaned, and visualized hundreds of ECG signals from hospital patient data using **NeuroKit2**, **Pandas**, and **Matplotlib** to extract features and generate insights for detecting Atrial Fibrillation.
- Trained and tested RandomForest, CNN, and LSTM models using **scikit-learn** and **TensorFlow** on the processed data, achieving approximately a **97.5%** accuracy in Atrial Fibrillation detection.
- Developed an LLM chatbot using Hugging Face's **LLaMA2** model, fine-tuned with medical research papers and company data using **LangChain** and **Transformers** to retrieve and answer company-specific inquiries accurately.
- Created a lightweight web application for users to interact with the chatbot, utilizing **Django** for API calls and **React** for the frontend.

PROJECTS

APO Online | *Community Service Club Management Website*

May 2024 - Present

- Developed a full-stack website for the Alpha Phi Omega chapter at Purdue, enabling users to manage accounts, join events, and track volunteer hours, providing comprehensive insights for both users and administrators.
- Utilized **React** for frontend, **Django REST** framework for backend, and **PostgreSQL** for the database to implement the platform's features ensuring efficient data handling and seamless user experiences.

Artikulate | *Automatic Video Editing Website*

Jan 2024 - May 2024

- Developed a video-editing and content-generation website that transforms text into fully edited videos for platforms like TikTok, Instagram Reels, and YouTube Shorts.
- Utilized **Django** for frontend and routing APIs, **Selenium** for web scraping, **OpenAI** API for both generating stories and text-to-speech narration, and **FFmpeg** to edit and export videos.

LEADERSHIP

President

ACM SIGAPP Purdue

Apr 2024 - Present

West Lafayette, IN

- Led ACM SIGAPP, under the ACM chapter at Purdue, organizing callouts, workshops, and advertising to increase membership and visibility while guiding the club's annual large-scale app development project.
- Oversaw both the frontend team, using **React Native**, and the backend team, using **MongoDB**, **ASP.NET Rest API**, and **Nginx**, to achieve the project goals effectively.

TECHNICAL SKILLS

Languages: C, C++, C#, Python, Java, JavaScript, TypeScript, PHP

Technologies: React.js, React Native, Vue.js, Django, ASP.NET, TensorFlow, LangChain, Pandas, Matplotlib

Tools: SQL, PowerBI, Docker, MongoDB, PostgreSQL, Figma, LaTeX, Bash, Linux