

Chi Che Colin Wu

+1 (765) 913-1680 | colinwu0403@gmail.com | [linkedin.com/in/colinwu0403](https://www.linkedin.com/in/colinwu0403) | github.com/ColinWu0403

EDUCATION

Purdue University

May 2026

Bachelor of Science in Computer Science

West Lafayette, IN

- **Courses:** Operating Systems, Data Mining & Machine Learning, Algorithms Analysis, Systems Programming, Data Structures and Algorithms, Computer Architecture, Discrete Math, iOS Development In Swift
- **GPA:** 3.39/4.0

EXPERIENCE

Undergraduate Data Science Researcher

Aug 2024 – Present

The Data Mine, Purdue University

West Lafayette, IN

- Collaborated with **PepsiCo** on mapping environmental risks impacting their manufacturing sites, developing a dashboard to provide and display predictions for extreme weather events (e.g., floods, droughts) and climate change impacts.
- Collected **GIS** data using open-source APIs, processed it with **Django** to generate insights, and visualized the results in **Power BI** to help optimize factory operations and mitigate environmental risks.

Machine Learning Intern

May 2024 – Aug 2024

REVLIS Biotech Company Limited

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.

PROJECTS

StonkSensei | AI-Powered Stock Market Analysis Platform

Feb 2025 - Present

- Developed a financial analytics website leveraging pre-trained **BERT** models for sentiment analysis on Reddit and financial news, integrating real market data to assess stock hype and risk.
- Built the platform with **FastAPI (Python)** and **React/Next.js (TypeScript)** with **MongoDB** for data storage, real-time data scraping using **Selenium** and **BeautifulSoup**, and integrated authentication with **Auth0**.

Bucketlist | Goal Achievement Community App

Oct 2024 - Present

- Developed a commissioned mobile app where each *bucket* serves as a community, allowing users to connect, share tips, and collaborate on achieving specific goals, with an emphasis on travel-related objectives.
- Led the technical development using **React Native**, **Express.js**, **Node.js**, **PostgreSQL** hosted on **AWS RDS**, and **AWS S3** for media file storage, ensuring scalability and seamless integration for future goal categories.

Purdue Paths | Interactive Campus Dorm App

Aug 2024 - Present

- Coordinated the development of ACM SIGAPP's annual 2024-2025 project, an interactive map for university students to explore campus dorms, view detailed information, and access user-generated reviews, including ratings, images, and comments.
- Led the frontend development with **React Native**, integrated the backend powered by **ASP.NET** and **MongoDB**, ensuring a seamless and dynamic user experience.

LEADERSHIP

President

Apr 2024 - Present

ACM SIGAPP Purdue

West Lafayette, IN

- Led ACM SIGAPP, under the ACM chapter at Purdue, organizing callouts, workshops, and advertising to increase membership and visibility while leading the development team for the club's annual large-scale app development project.

TECHNICAL SKILLS

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

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

Tools: Git, SQL, Docker, MongoDB, PostgreSQL, Figma, LaTeX, Bash, Linux, Nginx