

Chi Che Colin Wu

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EDUCATION

Purdue University

May 2026

Bachelor of Science in Computer Science

West Lafayette, IN

- **Courses:** Compilers, Operating Systems, Data Mining & Machine Learning, Artificial Intelligence, Algorithms Analysis, Systems Programming, Data Structures and Algorithms, Computer Architecture, Discrete Math, Linear Algebra
- **GPA:** 3.45/4.0

EXPERIENCE

Costco x The Data Mine

Aug 2025 – Present

West Lafayette, IN

Undergraduate Data Science Researcher

- Collaborating with **Costco** to build a weather-aware supply chain model using **Python**, **Spark**, and **GCP Vertex AI** to predict crop availability, anticipate transportation delays, and improve distribution efficiency.

Department of Computer Science, Purdue University

May 2025 – Present

West Lafayette, IN

Undergraduate Researcher

- Contributed to research in the Human-Centered Software Systems Lab by organizing and labeling large-scale code datasets for a benchmark evaluating LLM-generated code, supporting advancements in developer productivity and software safety.

PepsiCo x The Data Mine

Aug 2024 – Apr 2025

West Lafayette, IN

Undergraduate Data Science Researcher

- Collaborated with **PepsiCo** to map environmental risks at manufacturing sites, building a dashboard to display insights and predict extreme weather events (e.g., floods, droughts) and climate impacts.
- Collected **GIS** data using open-source APIs, processed it with **Django** and **Pandas** to generate insights, and visualized the results in **Power BI** to help optimize factory operations and mitigate environmental risks.

REVLIS Biotech Company Limited

May 2024 – Aug 2024

Taipei City, Taiwan

Machine Learning Intern

- Processed, cleaned, and visualized hundreds of **ECG** (Electrocardiography) recordings with **NeuroKit2**, **Pandas**, and **Matplotlib**, then trained RandomForest, CNN, and LSTM models using **scikit-learn** and **TensorFlow**—achieving **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

Bucketlist | Goal Achievement Community App

Oct 2024 - June 2025

- Led development as Project Manager for Bucketlist—a \$1,000 commissioned app (**React Native**, **Express.js/Node.js**, **PostgreSQL**) with **Auth0** authentication and **AWS** deployment (**RDS**, **S3**, **EC2**)—enabling users to form goal-focused communities (e.g., travel) to connect and collaborate.

StonkSensei | AI-Powered Stock Market Analysis Platform

Feb 2025 - May 2025

- Built an AI-driven stock analysis platform with **FastAPI (Python)**, **React/Next.js** & **MongoDB**, **Selenium** & **BeautifulSoup** web scraping, **Auth0**, leveraging pre-trained **BERT** for sentiment analysis and **Deepseek** for recommendations via real-time market APIs.

LEADERSHIP

ACM SIGAPP Purdue

Apr 2024 - May 2025

President

West Lafayette, IN

- Led ACM SIGAPP at Purdue, organizing events and outreach while managing the development team for Bucketlist, the club's annual app project; regularly reviewed pull requests, coordinated weekly sprints, and ensured code quality across features.

TECHNICAL SKILLS

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

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