

KYLE CHU

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EDUCATION

Cornell University

Bachelor of Science in Computer Science, Minor in Artificial Intelligence

Ithaca, NY

Aug. 2023 – Expected May 2027

RELEVANT COURSEWORK

- Data Structures
- Machine Learning
- Systems Programming
- Computer Networks
- Algorithms Analysis
- Artificial Intelligence
- Computer Vision
- Robotics

EXPERIENCE

Software Engineering Intern

June 2025 – August 2025

Spect AI

San Francisco, CA (remote)

- Developed a node-based AI workflow builder to enable 15+ AEC companies to automate LLM and agent pipelines to reduce workflow execution times with FastAPI, React, LangChain, and PostgreSQL
- Engineered OCR document parsing and structured data extraction pipelines to cut manual document parsing time by 70% using AWS Textract, Pydantic, and PyMuPDF
- Created submittal/due diligence tools to reduced compliance errors by 63% through automated PDF comparison and annotation using Next.js and AWS S3

Front-end Developer

March 2024 – August 2025

Cornell Pi Delta Psi Fraternity, Inc.

Ithaca, NY

- Launched a web platform to streamline updates and boost alumni engagement, increasing viewership by 200% and raising \$4,000 using React.js and TypeScript
- Optimized site performance and SEO to improve traffic by 85% through Next.js and efficient asset management
- Delivered a production-quality web app with CI/CD on Vercel, enabling reliable content updates and consistent UX

PROJECTS

Syllaparse | TypeScript (Next.js, React), Python (FastAPI, PyMuPDF, SQLAlchemy)

June 2025 - Present

- Built and deployed a full-stack web platform used by over 100 students that automatically extracts lecture schedules and exam dates from PDFs by leveraging OpenAI GPT-5 and PyMuPDF for text extraction
- Designed and implemented a PostgreSQL database with Redis caching and Google Cloud Storage, enabling efficient data management and faster query performance
- Reduced manual calendar event entry times by 92% through Google Authentication and Calendar API integration, streamlining academic planning for students

Sentiment Text Analysis | Python (NumPy, Scikit-learn)

November 2024 - December 2024

- Created a multi-class text classifier to predict 28 emotions, processing 15,000 samples to build a robust dataset using Python and Scikit-learn
- Engineered feature extraction pipeline with lemmatization, stopwords removal, and TF-IDF vectorization to improve model generalization
- Implemented a stacked classifier combining ridge regression and neural networks to boost prediction accuracy by 74%

Latte Link | Python, SQL (Flask, SQLAlchemy)

October 2023 - January 2024

- Architected a scalable backend database and REST APIs for user data management using SQLite and Python
- Integrated SendGrid email API to enable automated user communications and notifications
- Containerized and deployed on Google Cloud Platform with Docker, delivering a production-ready backend

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, Java, C, SQL, OCaml, HTML/CSS

Frameworks & Tools: React.js, Next.js, Node.js/Express.js, Flask, FastAPI, Tailwind CSS, Docker, AWS S3, GCP, Vercel, PostgreSQL, MongoDB, Redis

Libraries: PyTorch, Scikit-learn, LangChain, NumPy, Pydantic, React Redux, ReactFlow, PyMuPDF/PyPDF