Kyle Chu

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EDUCATION

Cornell University | GPA: 3.63   **Ithaca, NY**
Bachelor of Science in Computer Science, Minor in Artificial Intelligence   *Aug. 2023 – May 2027*

RELEVANT COURSEWORK

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