

Kyle Chu

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EDUCATION

Cornell University | GPA: 3.63

Bachelor of Science in Computer Science, Minor in Artificial Intelligence

Ithaca, NY

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

San Francisco, CA (remote)

- Automated AEC workflow execution processes by across **15+** companies by building a node-based AI workflow builder with **FastAPI**, **React**, **LangChain**, **PostgreSQL**
- Cut manual PDF parsing time **70%** by shipping OCR + structured extraction pipelines using **AWS Textract**, **PyMuPDF**, **Pydantic**
- Created full stack tools to reduce compliance errors by **63%** over more than **1000** documents through automated PDF comparison and annotation using **React**, **Next.js** and **Python**

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 users by **200%** and raising over **\$4,000** using **React.js** and **TypeScript**
- Optimized site performance and SEO to improve traffic by **85%** through **Next.js**
- Delivered production-quality web app with CI/CD on **Vercel**, enabling reliable content updates and consistent UX

PROJECTS

FantasyForecast | Python (Pandas, Scikit-learn), TypeScript, SQL

September 2025 – Present

- Built an end to end ML pipeline with a **PostgreSQL** feature store, **FastAPI** for predictions, and per-position XGBoost models validated with expanding timeseries CV and hyperparameter search
- Processed **12+** years of NFL data with automated ETL, feature selection and engineering in **Python** with **Pandas** and **NumPy**
- Outperformed major public fantasy projection systems by achieving up to **45%** within 3 points accuracy and reducing average prediction error by **25%**

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 API** 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

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, Astro, Flask, FastAPI, Tailwind CSS, Docker, AWS S3, GCP, Vercel, PostgreSQL, MongoDB, Redis

Libraries: PyTorch, Scikit-learn, LangChain, NumPy, Pydantic, React Redux, Pandas, DuckDB