# 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**
*Nonlinear*                                                                  *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), SQL (DuckDB), Parquet*          **September 2025 – Present**

- Built end-to-end machine learning pipeline using **Python**, **SQL**, and **Scikit-learn** that processes **12** years of NFL data through automated data ingestion, transformation, and model training
- Engineered **42** predictive features from **6** different data sources using **DuckDB** and complex **SQL** queries, processing over **200,000** player-week records
- Developed a linear regression model with **Scikit-learn** that achieves **80%** accuracy using pre-processing pipelines, data cleaning, and validating with train/test splits to prevent data leakage

**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