

Kyle Chu

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EDUCATION

Cornell University | GPA: 3.68

Bachelor of Science in Computer Science, Minor in Artificial Intelligence

Ithaca, NY

Aug. 2023 – May 2027

RELEVANT COURSEWORK

- | | | | |
|-----------------------|---------------------------|---------------------|--------------------------|
| • Data Structures | • Artificial Intelligence | • Computer Networks | • Deep Learning |
| • Algorithms Analysis | • Systems Programming | • Robotics | • Functional Programming |
| • Machine Learning | • Computer Vision | • Operating Systems | • Text Mining |

EXPERIENCE

Software Engineering Intern (Incoming)

AMD

May 2026 – August 2026

San Jose, CA

- Engineering high-performance debug tools for AI compilation within the Adaptive and Embedded Computing Group (AECG) to optimize the deployment of complex models on hardware accelerators
- Enhancing AI model results and system performance through C++, Python, and PyTorch while performing low-level tasks including kernel-level debugging and driver development

Undergraduate Teaching Assistant | CS 4670: Computer Vision

Cornell Ann S. Bowers College of Computing and Information Science

January 2026 – Present

Ithaca, NY

- Facilitating technical mastery for 170+ students by leading office hours and grading projects on core CV concepts, including feature detection, epipolar geometry, and structure-from-motion
- Partnering with a 18-person course staff to streamline grading workflows and provide architectural feedback on student assignments involving convolutional architectures, semantic segmentation, and Vision-Language models using PyTorch and NumPy

Software Engineering Intern

Nonlinear

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

Cornell Pi Delta Psi Fraternity, Inc.

March 2024 – August 2025

Ithaca, NY

- Launched a Next.js and TypeScript platform to streamline alumni engagement, increasing users by 200% and raising over \$4,000
- Optimized site performance and SEO to improve traffic by 85% and established a CI/CD pipeline on Vercel for reliable production updates

PROJECTS

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

September 2025 – Present

- Architected a full-stack ML system using FastAPI and PostgreSQL, deploying per-position XGBoost models for real-time inference
- Engineered an automated ETL pipeline with NumPy and Pandas to process 12+ years of NFL data, achieving 45% prediction accuracy, outperforming baseline public prediction methods by 5-9 percentage points

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

June 2025 – Present

- Built and deployed a full-stack platform for 100+ students using OpenAI API and PyMuPDF to automate lecture and exam schedule extraction from PDFs
- Integrated Google Authentication and Google Calendar API, reducing manual student data entry times by 92% through streamlined authentication and API management
- Designed and implemented a PostgreSQL database and Google Cloud Storage, enabling efficient data management and faster query performance

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