Chris Johnson

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY   *Expected Dec 2026*
Master of Engineering Program in Computer Science
Bachelor of Science in Computer Science || **Honors:** Dean's List [Fall '22]

SKILLS

<u>*Coding:*</u> Python, Java, SQL, SQLite, C, Assembly Code, HTML, JavaScript, C++, OpenGL GLSL, AWS, Grafana, REST

RELEVANT COURSEWORK

Analysis of Algorithms · Foundations of AI · Natural Language Processing · Machine Learning · Computer Graphics
Databases · Embedded Systems · Discrete Structures · Data Science · Functional Programming · OOP & Data Structures

PROFESSIONAL EXPERIENCE

Applyied – *Full Stack, Co-Founding Software Engineer*   *July 2025 – Present*
- Co-founded AI-powered job platform using Next.js (TypeScript), Firebase (Auth, Firestore), Python, and OpenAI API
- Implemented authentication, resume parsing, and application tracking pipelines to streamline job search workflow
- Exercising understanding of Software Development Life Cycle when working on a team from conception to finish

Valve – *Software Engineer Intern*   *May 2025 – Aug 2025*
- Reduced sequential raytrace compute time from 55 s to 0.3 s by parallelizing it in a fragment shader using OpenGL
- Implemented lens optimization with GPU-accelerated algorithm using PyTorch to enable faster design and correction
- Automated interpretation of ronchigrams patterns by training a neural network to infer optical system configurations
- Contributed to open-source optical design software using relevant industry work following proper formatting guidelines

Slack, Data Orchestration Team – *Software Engineer Intern*   *May 2024 – Aug 2024*
- Reduced 80% of security tickets proactively by automating security patch upgrades to maintain FedRAMP compliance
- Removed 46% of Pinot services PagerDuty alerts by implementing cloud auto-healing job onto servers to resolve Pinot bad table status with kubernetes and launched a custom SlackBot to notify engineers in an alerting channel
- Collaborated with security team to safely enable the alerting service for Pinot table status into an internal Slack channel
- Presented technical knowledge shares to the Engineering teams & presented the business impact to the larger Slack org
- Proposed design doc for a client-serving Pinot health endpoint for a Data Engineering services monitoring dashboard
- Won "Most Likely to Take Our Jobs" award in an internal hackathon for an AI integration on Slack Canvas

PROJECTS

Investment Portfolio Analysis LLM
- Engineered a financial advisory agent with OpenAI & Langchain to analyze portfolios and generate rebalance strategies
- Implemented Retrieval-Augmented Generation (RAG) & Python backend to reduce hallucination in risk assessment

Encrypted Messaging Program
- Implemented Diffie-Hellman Key Exchange algorithm into OCaml-based fully functioning, secure email-esque system
- Cooperated on a team of four throughout the semester, writing documentation and designed comprehensive test suite

Functional Client Database
- SQL-based database that provided analysis on trends in data. Allowed for users to add, edit, and remove data entries
- Wrote 20+ pages of documentation on the coding techniques, process, and resources consulted for the full-stack app

COLLEGIATE EXTRACURRICULAR EXPERIENCE

The Key Elements A Cappella – *President*   *Feb 2023 – Present*
- Oversaw the running of the group and in charge of all logistic functions. Represented the group during auditions and all promotional events, planned and managed rehearsals, and all communications. Also, served as the business manager and spearheaded all the financial decisions made by the group, working with the treasurer to determine the budget

ADDITIONAL INFORMATION

Interests: Broadway Musicals, Working Out, Singing, Fantasy Football, Movies, and Music Production