

# Calvin Yang

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## EDUCATION

### Skidmore College

B.A. in Computer Science

Saratoga Springs, New York

May 2023

- **Related Coursework:** Data Structures & Algorithms, Computer Organization, Artificial Intelligence, Applied Data Science, Digital Image Processing, Computer Vision, Complexity and Heuristics, Object Oriented Programming

## EXPERIENCE

### Headstarter AI

Software Engineer Resident

New York, New York

Jul 2024 – Present

- Improved DSA score from 40% to over 70% using AI mock interviews leading to more clear and concise planning.
- Learned new technologies such as Clerk, Stripe, GROQ, and more through project-based learning and hackathons hosted by Headstarter.

### Smart Attorney

Freelance Software Engineer

New York, New York

Sep 2023 – Present

- Implemented fine-tuning learning model with ChatGPT API for AI chat bot using ~50 datasets
- Used React and Spring + MySQL backend to build a functional dashboard allowing users to upload documents
- Worked under an Agile development environment organized by Jira tickets and version controlled on GitHub

### Skidmore College

CS106 TA

New York, New York

Jan 2023 – May 2023

- Held regular office hours to answer student questions, clarify concepts, and provide additional academic support
- Supported students in group projects, promoting teamwork and effective collaboration in software development
- Guided students through hands-on coding exercises and debugged code to enhance their learning experience

## PROJECTS

### Discord Clone

Personal Project

New York, New York

Nov 2024 – Nov 2024

- Used React, Clerk, Convex to build a fake discord that allows users to message to each other, create servers, and join voice chats
- Used Clerk and Convex APIs to expedite development.

### AI Pokémon Flashcards & Stripe

Personal Project

New York, New York

Aug 2024 – Aug 2024

- Used Next.js, Clerk, Firebase, OpenAI, and Stripe to develop a SaaS Flashcard generation application with hosted on Vercel that generated 200+ user interest through the waitlist
- Implemented OpenAI API with custom System prompt to generate flashcards to help users study effectively and efficiently

### AI Rate My Professor

Personal Project

New York, New York

Aug 2024 – Aug 2024

- Utilized Next.js, OpenAI, and Pinecone, to develop an AI-powered rate my professor assistant enhancing the user experience by providing intelligent professor evaluations and recommendations hosted on Vercel
- Integrated advanced natural language processing (NLP) models from OpenAI with a Pinecone-powered vector search engine, delivering personalized and accurate professor ratings and reviews
- Optimized full-stack application for scalability and performance, leveraging server-side rendering in Next.js and implementing efficient data retrieval and storage solutions with Pinecone

### Chess Game with AI

Personal Project

Saratoga Springs, New York

Jan 2023 – May 2023

- In Java created a 2-player, terminal-based chess game with an AI opponent using the alpha-beta minimax algorithm and Q-Learning RL algorithm
- Employed Object Oriented Programming to create classes of pieces, square, and board
- Experimented with training a reinforcement learning AI to play chess using the SARSA algorithm

## INTERESTS & SKILLS

**Programming:** Java, Python, JavaScript, SQL, Spring, NodeJS, Ruby on Rails, ExpressJS

**Tools:** PyCharm, Eclipse, VS Code, Git, Agile, PEGA, MySQL, MongoDB

**Interests:** K-pop, Gaming, Anime, Chess