# Justin Dy

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## EDUCATION & RELEVANT COURSEWORK

**University of Iowa** | Bachelor in Computer Science at College of Liberal Arts and Sciences          2023 - 2027
- Computer Programming Fundamentals I & II, Data Structures, Discrete Structures, Intro to Software Development.

**Leadership & Organization Involvement**: Tippie Technology & Innovation Association (University of Iowa)
- Acted as a general member, attending industry-experienced guest speaking and company networking/hiring events, connected and collaborated with other like-minded students/peers, and performed community service.
- Pi Kappa Phi Social Fraternity: Active member, facilitating effective communication and organizational strategies among 150+ fraternity members to build events, organize volunteer work and achieve chapter goals.

**Plainfield North High School, Plainfield IL** | GPA - 5.2 (weighted)          2023

## CERTIFICATES

**Amazon** | AWS - Certified Cloud Practitioner          2024 - 2028

## PERSONAL PROJECTS

**Marketplace Clone** | Javascript, Typescript, HTML, CSS          July 2024
- Marketplace- Created a fullstack, fully-functional Facebook marketplace clone from scratch.
- Implemented Google's Developer API which allows users to login with their Google account and utilize Google Maps to locate posts, Stores website activity and user data using MongoDB.

**AI Video Generator** | Javascript, Typescript, HTML, CSS          Aug. 2024
- Url-to-Video - Application that takes any article or webpage via URL and creates a short-video from it.
- Utilizes OpenAI's new GPT-4o and gptscript to summarize, generate b-roll images, and add a voiceover.

**AI Application** | Python          Jun. 2024
- AI Search Assistant - Created an AI program that deploys a fine-tuned Llama 3.1 model to artificially generate titles when questions on a specific data set are asked.
- Applies NVIDIA's Llama 3.1 8B Instruct Model NIM, LoRA, and NVIDIA's Nemo Framework.

## EXPERIENCE

**Programming Assistant**          Aug. 2024 - Current
**University of Iowa** | Iowa City, IA

- Utilize problem-solving and technical skills to troubleshoot software issues, optimize digital workflows, and maintain IT resources across multiple student support centers.
- Collaborated with diverse student groups to design and implement hybrid events using virtual and in-person technologies, effectively reaching an audience of over 200 participants.
- Developed and managed social media marketing campaigns for student organizations using platforms like Facebook and Instagram, increasing engagement by 23% in a single semester.

## TECHNICAL SKILLS

**Languages:** Python, Java, HTML, CSS, Javascript, Typescript

**Frameworks:** React, Express, Node, Django, Tailwind CSS, GPTScript, AWS CDK, Ffmpeg

**Developer Tools:** Google Cloud Platform, Google for Developers, VS Code, Visual Studio, Pycharm, IntelliJ, Git, OpenAI API, AWS, MongoDB