

Anthony Qiu

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EDUCATION

Binghamton University

GPA: 3.87/4.0

Bachelor of Science in Computer Science, Minor in Graphic Design

Vestal, NY

Scholarships & Awards: University Scholar (top 3%), AI/ML Research, HackBU 2023 Winner

Relevant Coursework: Data Structures & Algorithms, OOP, Computer Architecture, Operating Systems

EXPERIENCE

Google

New York, NY

Software Engineer Program Mentee

March 2024 - Present

- Selected as one of 350+ applicants to participate in one-to-one technical interview preparation with a Google SWE.

Binghamton Tech Collective

Vestal, NY

Software Engineer Intern

December 2023 - Present

- Spearheaded cross-platform mobile app development using React Native, Expo Router, and Firebase to benefit **2000+** university students by matching study partners.
- Implemented MVVM architecture to support seamless user registration, friend system, and live direct messages.
- Engineered custom React hooks and classes to efficiently get and persist relevant user information across pages.

Binghamton University

Vestal, NY

Undergraduate Researcher

August 2022 - December 2023

- Collaborated with 3 researchers to detect and source deepfake video content generated with common lip sync, audio, and video algorithms (FSGAN, FaceSwap, Wav2Lip, and SadTalker).
- Generated **600+** unique deepfake videos by iterating over the FakeAVCeleb dataset, utilizing various computer vision and machine learning Python libraries including OpenCV, Tensorflow, PyTorch, and Pandas.
- Trained a custom CNN model with an average of **69%** deepfake detection accuracy and **86%** sourcing accuracy.

SciQuel

New York, NY

Software Engineer Intern

June 2023 - August 2023

- Extended the Editor's Dashboard by single-handedly prototyping and implementing the Quiz Feature, supporting **4 formats** such as variations of multiple choice and matching.
- Utilized reusable frontend React components and states to validate form data sent through JSON to the Node.js, Express.js, and MongoDB backend.
- Developed responsive UI with Tailwind CSS, refining through **5** Figma design iterations based on team feedback.

PROJECTS

University Events Map Visualizer - HackBU 2024 | *React, Tailwind CSS, Firebase*

2024

- Organized Events schema inside Firebase, combining it with the Google Maps API to display map markers.
- Converted mouse clicks to accurate addresses through GeoCoder, **eliminating manual user-input time**.
- Utilized OpenAI Assistants API to create a "smart search" feature that returned a user's most relevant event.

Speech-to-Text Interview Preparation - Individual Project | *React, Node, Express, MongoDB*

2023

- Transcribed voice responses to generated interview questions into text utilizing AssemblyAI and Cloudinary API.
- Analysed transcribed response by providing an overall response grade, words spoken, and a list of filler words spoken, leading to an **average grade improvement of 15%**.
- Developed REST API endpoints to handle user registration through requests sent to MongoDB and Atlas.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, HTML/CSS, SQL, JavaScript, TypeScript

Frameworks: React, Node.js, Express.js, Django, Flask, MongoDB, OpenCV

Technologies: Git, Linux, Figma, Amazon Web Services (AWS), Google Cloud Platform (GCP)