

Alan Qi Chen

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Education

The Ohio State University

B.S. Computer Science & Engineering GPA: 4.0

Columbus, OH

Aug. 2019 - May 2023

Experience

Caesar Creek Software | Software Engineer Intern

C, Docker, Git, Python

Miamisburg, OH

May 2020 - Aug. 2020

- Trained in reverse-engineering concepts including DLL-injection, python packet building/sending, return-oriented programming, and creating a Linux kernel module
- Built a tool that led to new discoveries while contributing on an internal reverse-engineering project

Selected Projects

Bear Blog Engine | Personal

example.aqchen.com

Docker, Git, Go, Next.js, Postgres, React, Redis

- Developed a REST API to interact with databases for a blog engine including authentication
- Implemented caching using Redis to reduce API request times by 33%
- Created a search-engine optimized and progressive web application frontend utilizing server-side rendering with an admin dashboard to manage posts and editors
- Integrated Docker and GitHub actions for automatic deployment and development

College Cheque | Team

aqchen.pythonanywhere.com

CSS, Flask, Git, HTML, JQuery, Python

- Created a web application that lets students and parents a tool to receive personalized financial information on over 5,800 US colleges to aid the college decision process
- Winner of JPMorgan Chase's "Best FinTech for Good" Challenge

Autonomous Robot | Course Team Project

robot.aqchen.com

C++, Git, MATLAB, SolidWorks

- Built a PI controller to autonomously move a tri-omniwheel robot on a course to complete tasks using pregenerated coordinates and velocity
- Added course calibration, position error correction, and PI controller error logging
- Designed the robot from scratch in SolidWorks and continuously improved the design after tests
- Completed required biweekly milestone tests three days early while working with tight deadlines

Toonify | Personal

github.com/alanqchen/Toonify-App

Android, Java, OpenCV

- Built an Android app to apply a cartoon filter using the OpenCV library on new or existing photos
- Built upon a low level CLI project which included additional filters to apply blur, painting, and edge filters

Activities

Code 4 Community | Backend Team

Aug. 2020 - Present

MongoDB, Node.js, React

- Participated in creating a web app for OSU professors and mental health researchers which will allow adolescents with mental health issues to receive articles, activities, and surveys
- Implemented API routes for the backend including fetching posts, registering, and logging in

Awards

Challenge Winner and Overall Finalist

Hack OHI/O

Winner of JPMorgan Chase's "Best FinTech for Good" Challenge out of 19 competing teams and overall Finalist out of over 700 attending students

Nov. 2019

Maximus Scholarship

The Ohio State University

Awarded for academic achievements, including top 3% of class rank

Autumn 2019

Skills

Languages: C, C++, Redis, Go, HTML/CSS, Java, JavaScript, Python, PostgreSQL
Technologies: Git, Docker, Linux