Kevin Cao

https://defcoding.github.io /in/cao-kevin

EDUCATION

University of Chicago · Graduation Date: June 2022

    M.S in Computer Science · Chicago, IL
    GPA: 4.00 / 4.00

Indiana University · Graduation Date: May 2021

    B.S in Computer Science | Minor in Mathematics · Bloomington, IN
    Specialization: Software Engineering
    Major GPA: 3.971 (Cumulative GPA: 3.416) / 4.00

TECHNICAL SKILLS

Languages	Python, Javascript, Java, C/C++, HTML/CSS, Haskell, Swift, Bash, Kotlin, C#
Frameworks	ReactJS, Flask, Ant Design, Bootstrap, jQuery
Databases	PostgreSQL, SQLite
Other	AWS, Unix, Git, Intellij, XCode, RESTful APIs, Docker

WORK EXPERIENCE

Certik LLC · May 2021 - June 2022
Software Engineer Intern · New York, NY

- Develop in-house website and APIs using React, HTML/CSS, and NodeJS to expedite the auditing process.
- Employ AWS utilities such as DynamoDB, Lambda, and SQS to handle server backend and automation.
- Communicate closely with end-users to implement desired features and fix bugs in a timely manner.
- Collaborate with senior auditors to analyze client Solidity smart contracts and report on security vulnerabilities, correctness, and optimizations.
- Research and utilize useful external SAAS and APIs to be integrated into auditing tools.
- Nominated for the monthly Founder's award in the first month of the internship.

Indiana University Department of Computer Science · May 2019 - May 2021
Data Structures Head Undergraduate Instructor · Bloomington, IN

- Received the UI of the Year award in Spring 2021 after receiving more than 80% of the nominations from the CS department.
- Massively boosted grading efficiency by building various scripts to automate grading processes for over 100 students.
- Led other instructors as the head assistant and facilitated communication and teamwork.
- Instructed laboratory classes to personally guide students and grant hands-on experience with building data structures.
- Held office hours to answer questions and provided supplementary lectures to topics discussed in class.
- Published multiple Youtube videos and blog posts going in-depth over topics covered in the course.

TECHNOLOGY PROJECTS

AniMalSync · June 2022

- Created a Flask webapp using Bootstrap that automatically syncs changes on AniList profiles to MyAnimeList for its users.
- Set up automatic deployment to AWS Elastic Beanstalk and Lambda using GitHub actions.
- Utilized AWS DynamoDB to store user information and powered sync script using Lambda, SNS, SQS, SFN, and SES.

XKCD Browser · Apr 2022

- Published an application on App Store for browsing XKCD comics, with support for iOS, iPad OS, and MacOS.
- Allow users to browse comics offline, save favorite comics, and perform deep searches through all comics.

S.P.I.D.E.R. (Stocks Program Investing Dogecoin when Elon Retweets) · Mar 2021

- Designed a script utilizing the Twitter API to fetch Elon Musk's tweets and invest in Dogecoin using the Robinhood API whenever a tweet about cryptocurrency or doge is made.
- Augmented script with a notification service using the Pushbullet API to notify user through their mobile device when a relevant tweet was detected.

Tokyo Grill Inc. Website · Jan 2021

- Cut website costs by over 90% for Tokyo Grill as the sole developer of the website.
- Developed and deployed static site with the Sanity.io CMS and ReactJS/MDBootstrap frameworks.