

505 S Muller Pkwy Apt 519, Bloomington, IN 47403
 ✉ kcao1998@gmail.com ☎ (812) 244 - 9592
 🌐 <https://defcoding.github.io> 🌐 /in/cao-kevin

Major GPA: 3.967 (Cumulative GPA: 3.384) / 4.00

Languages	Java, Python, Javascript, C, HTML, CSS, C#, Racket, x86, Swift, Processing, Kotlin, Scala, L ^A T _E X
Frameworks	ReactJS, Bootstrap, jQuery
Databases	PostgreSQL
Other	Unix, Git, IntelliJ, XCode, RESTful APIs, Agile Development, Vim, Photoshop, After Effects, Premiere Pro

- Lead other instructors as the head assistant and facilitate communication and teamwork.
- Build various scripts to automate grading processes and assist in instructing.
- Instruct laboratory classes to personally guide students and grant hands-on experience with building data structures.
- Hold office hours to answer questions and provide supplementary lectures to topics discussed in class.

- Managed and guided groups of students requesting tutoring for different courses.
- Provided assistance to students for a variety of topics, including C, artificial intelligence, and databases.
- Arranged private tutoring sessions for students with special needs.

- Lead a group of software engineers in rebuilding the IU Student Government website with templates made with Ktor/Kotlin.
- Implemented Agile development methods and coordinated project milestones and timelines.

- Designed a program to perform computations of molecular dynamics through the interpretation of chemical assemblies as chemical abstract machines.
- Implemented the chemical abstract machine and performed asynchronous computation by using Scala's Chymyst library.

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

- Built Google's Dino Run game in Processing 3 and developed an AI using NEAT algorithm that could "beat" the game.
- Implemented real-time graphical interfaces to display neural networks and show progress of generational performance.

- Created a bot that interacted with the Discord API to assist instructors in teaching online courses and remote learning.
- Organized a queue of students while maintaining an interactive topic subscription list using the bot.

- Designed mobile-friendly static personal website from scratch with vanilla HTML/CSS/Javascript.
- Write informational blog posts and YouTube videos on various programming concepts to educate viewers.