Kevin Cao

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https://defcoding.github.io

Education

Indiana University   2016 - Present
  B.S in Computer Science | Minor in Mathematics   Expected Graduation Date: May 2021
  Specialization: Software Engineering
  Major GPA: 3.961 (Cumulative GPA: 3.333)

Technical Skills

Front-End	HTML, CSS, Javascript, ReactJS
Back-End	Java, C, Python, Racket, C#, ExpressJS, GDScript, Swift, Kotlin
Databases	PostgreSQL
Workflow	Unix Operating Systems (Arch/Ubuntu), Git.
Other	LaTeX, Markdown, Photoshop, Premiere, After Effects, Animate, Audacity, AutoDesk Inventor, Godot, Unity

Work Experience

Indiana University Department of Computer Science   May 2019 - Present
Data Structures Undergraduate Instructor   Bloomington, IN
  - Lead laboratory classes to personally guide students and grant hands-on experience with building data structures.
  - Approach data structures in a variety of perspectives to provide flexible teaching material to students.

Indiana University School of Informatics, Computing, and Engineering   August 2019 - May 2020
Tutor   Bloomington, IN
  - Successfully managed and guided groups of students requesting tutoring for different courses.
  - Aided Chinese foreign exchange students by teaching in Mandarin Chinese.

Tokyo Grill Inc.   June 2015 - Present
IT Support   Terre Haute, IN
  - Consult with users and troubleshoot to ensure that all devices in the restaurant run smoothly and do not hinder operations.
  - Utilize web development and graphic design software to create a user-friendly and intuitive website for the restaurant.

Leadership Experience

Indiana University Student Government   Aug 2020 - Present
Project Manager   Bloomington, IN
  - Manage a group of software engineers in rebuilding the IU Student Government website.
  - Utilize Ktor/Kotlin to create HTML and CSS templates.

Technology Projects

NEAT Dino Run   April 2020
  - Recreated Google Chrome'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.

Teaching Assistant Discord Bot   March 2020
  - Utilized Discord API to create a bot to assist instructors in teaching online classes during COVID-19 pandemic.
  - Bot would organize and manage a queue of students, and also maintained a subscription list to teaching topics by taking advantage of Discord reactions.

Sorting Algorithms Visualizer   October 2019
  - Used Visual Studio, C#, and MVC design scheme to develop a visually appealing sorting algorithm visualizer.
  - Exploited multi-threading and buffers to minimize RAM usage while maximizing program speed.

DefineCoding Website   July 2018 - Present
  - Learned responsive website design practices to make the website mobile friendly.
  - Educate readers with informative blog posts and YouTube videos on various programming concepts.