Alex Zhong

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Education

University of Florida, Herbert Wertheim College of Engineering Gainesville, FL

Bachelor of Science in Computer Engineering **GPA: 4.0** May 2028

Relevant Courses: Programming Fundamentals I, Calculus I, Engineering Design and Society

Skills

Languages: LaTeX, C++, HTML, CSS, Javascript, Java, Python

Frameworks: React

Developer Tools: Git, PyCharm, CLion, VS Code, Vim, IntelliJ

Experience

Independent Volunteer Tutor August 2024 - Present

University of Florida *Gainesville, Florida*

- Provided tutoring to classmates on unclear lab concepts, offering thorough explanations to enhance their understanding
- Assisted peers in improving code style, ensuring their code was efficient and clean, which facilitated smoother collaboration and better integration into teamwork

Responsive Web Design Certification September 2024 - Present

FreeCodeCamp *Gainesville, Florida*

- Mastered the principles of responsive web design, including HTML5, CSS3, Flexbox, and CSS Grid
- Developed several projects, such as a personal portfolio webpage and a tribute page, showcasing responsive layouts
- Utilizing semantic **HTML** for better accessibility

Projects

Personal Website | *HTML/CSS, JavaScript* September 2024

* Developed a dynamic and flipped-card style web portfolio using of **HTML/CSS** and **JavaScript**, showcasing technical experiences
* Deployed via **GitHub Pages** with streamlined continuous integration and version control

Alien Invasion | *Python* June 2024 - August 2024

* Developed an Alien Invasion game with movable aircraft and aliens in formation
* Using **Pygame**'s Spritecollideany method to detect and respond to the collision of aliens and bullets, as well as aliens and aircraft
* Analyzing and monitoring users' in-game data in real-time, improving the game's overall playability and user engagement

Percolation | *Java* September 2024

* Simulating an abstract process called **Percolation** to estimate under what condition water can drain through to the bottom using **Java**
* Leveraged Union-Find Algorithm to significantly accomplish and obtain the percolation probability, which can not be solved directly using math model

Extracurricular

Member | *UF Association for Computing Machinery* August 2024 - Present

* Developed and deployed a personal portfolio website to showcase projects and skills
* Participated in technical and professional development workshops, enhancing software engineering skills

Referee | *High School Basketball Club* September 2021 - June 2024

* Controlled and Managed all basketball games in High School.
* Taught incoming students in the club to realize, understand, and master the rules of the game to become a better and more successful referee.