Hongwei (Vincent) Cai

he/him/his

Iowa City, IA | (319) 800-1492 | hongwei-cai@uiowa.edu

Website: https://hongweicai.com | LinkedIn: https://www.linkedin.com/in/hongwei-cai | GitHub: https://github.com/hongwei-cai

A detail-oriented Computer Science student, seeking a Software Engineer internship to apply and enhance my technical skills.

Open to remote or on-site positions, eligible for CPT/OPT, and eager to contribute to the growth of the company.

EDUCATION	
MCS, Computer Science University of Iowa Iowa City, IA	Anticipated May 2025
☐ With a Software Engineering subtrack	
Relevant Coursework: Data Structures, Algorithms, Computer Organization, Operating System,	GPA: 4.00/4.00
Programming Language Concept, Design and Implementation of Algorithms	
Ph.D., Composition University of Iowa Iowa City, IA	Anticipated Dec 2023
 Awarded Marcus Bach Fellowship, for outstanding doctoral dissertation 	GPA: 3.77/4.00
□ Awarded Henry and Parker Pelzer Fellowship Award (×2)	
EXPERIENCE	
Teaching Assistant Computer Science Department University of Iowa Iowa City, IA	Jan 2023 – May 2023
☐ Led two weekly lab sessions for CS:2630 Computer Organization for 30+ students in active proble	em solving
☐ Instructed C programming, Bash, assembly language programing, X86 ISA, memory management	, and CPU pipelining
☐ Established open communication via office hours, email, and resolved issues in collaboration wit	h fellow TA
PROJECTS	
FoodShareConnect HACKUIOWA Project Python, Django, JavaScript, ReactJS, HTML, CSS, MariaDB, Git	Sep 2023
☐ Managed front-end development, collaborated seamlessly with back-end teammates for seamle	ss integration
☐ Facilitated effective communication, driving efficient issue resolution, idea sharing, and timely property of the state	oject delivery
☐ Utilized GitHub for version control, fostering a collaborative development environment	
Combination Tone Generator Python, Flask, JavaScript, HTML, CSS, PyCharm, Git	Aug 2023
☐ Implemented input validation for error reduction and enhanced tool reliability	
☐ Designed a user-friendly responsive interface with CSS adaptable to various screen sizes	
☐ Developed an efficient note frequency caching mechanism for improved responsiveness	
Website Building and Design HTML, CSS, JavaScript, jQuery, VS Code, Front-end Design, Git	Jul 2023
☐ Rebuilt personal website from scratch, refining HTML, CSS and JavaScript skills for a engaging use	er experience
☐ Created a user-centric, responsive interface with adaptable CSS for seamless browsing on differe	nt screen sizes
☐ Improved website's SEO, increasing search engine visibility and organic traffic	
Build ARM Processor Logisim, Python, Bash, Linux, GitLab	Apr 2022
☐ Designed a complex digital system, adding new instructions to the datapath and control during in	nplementation
☐ Applied combinational logic to build ARM processor components in Logisim and created Python	test programs
$\ \ \Box \hbox{Employed robust testing methodologies for digital logic design, ensuring accuracy and reliability}$	
HONORS & AWARDS	
Marcus Bach Graduate Fellowship University of Iowa College of Liberal Arts and Sciences	Sep 2023
☐ Awarded \$10,500 for promoting intercultural communication and understanding of diverse relig	ious perspectives
Graduate College Summer Fellowship University of Iowa Graduate Collage	Jun 2021
☐ Awarded \$5,000 to support summer research	
Henry and Parker Pelzer Fellowship Award (×2) University of Iowa Graduate Collage	Apr 2017 & Apr 2019
☐ Awarded \$10,000 to one outstanding composer each year	
SKILLS	
Technical Skills: Python, C/C++, JavaScript, Java, Haskell, HTML5/CSS3, SQL, Git/GitHub, Linux, AWS	
CAMPUS INVOLVMENT	
□ 2023 HACKUIOWA, the University of Iowa Hackathon	Sep 2023
☐ Provided support to 100 new Teaching Assistants during the Q&A session of the New TA Orienta	tion Aug 2023
WORKSHOPS	
☐ Introduction to HPC using Argon Cluster	Jul 2023
☐ Cloud Computing Workshop Series (AWS)	Jun 2023 – Jul 2023