Jeffrey Chang

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EDUCATION

University of Illinois at Urbana-Champaign   **Champaign, IL**
B.S. in Electrical Engineering | GPA: 3.88/4.00   *Expected May 2024*

Technical Coursework
Data Structures(C++), Computer Architecture(MIPS Assembly), CS Numerical Methods(Python), Computer Systems, Intro to Algs and Models of Computation, Artificial Intelligence(Python)

RESEARCH EXPERIENCE

SHOP: Small Handheld Objects present in Blurry Videos (Spider Sense)   **Champaign, IL**
Researcher (Python)   *Dec. 2020 - Present*
- Designed a novel handheld object detector through DeblurGANv2, OpenPose, SimDR, and YOLOv5 with a team of 5
- Reduced false positive from base YOLOv5 model by 62% + maintained true positive of 76% on MS COCO dataset
- Awarded a total of $2,500 through research grant and entrepreneurship award from UIUC by pitching a novel pipeline

PROFESSIONAL EXPERIENCE

Code Cappuccino   **Online**
Founder - www.codecappuccino.online   *June 2021 - Present*
- Founded a multidisciplinary tutoring organization, connecting 12 students to 5 tutors in 3+ subject areas
- Accelerated revenue growth by 508% ($1830/mo from $360/mo) through website/in-person marketing
- Designing the company to be easily inheritable so responsibilities can be delegated in the future

Gavel   **Online**
Software Developer and Founding Member(Python)   *April 2021 - Present*
- Developing webapp aimed at increasing educational equity by reducing Speech & Debate/Mock Trial costs for school
- Designed software framework by creating & implementing a Firebase project through collaboration with a team of 4
- Spearheaded a mission-aligned business model by conducting market research to identify user needs & industry trend

Department of Defense (Naval Sea Systems Command)   **Norco, CA**
Measurements & Science Intern   *June 2019 - Aug. 2019*
- Worked closely with Mentor to acquire more skills and take on more responsibilities than required
- Attained a Bureaucratic mindset through procedure focused filing work done under the supervision of my mentor
- Made precise measurements of up to .001 inch to maintain by learning to use gauge blocks and other precision tools

PROJECTS

Log Updater - Log-Update-Discord-Bot   **Champaign, IL**
Personal Project (Python)   *Jan. 2022 - Present*
- Developing a Discord bot to automatically log classes from Code Cappuccino and store them in a .csv file
- Designing the bot so that it can be easily used without coding knowledge to make hiring a manager in the future easier

Mapping Flight Data - UIUC_CS225_jdchang3   **Champaign, IL**
Project Member (Python)   *Nov. 2021 - Dec. 2021*
- Scraped Bureau of Transportation Statistics for flight data and organized it into a useable .csv file
- Wrote the visual implementation of our Flight Mapping which shows how to get from location A to location B

SKILLS

- C++, Python, Verilog, MIPS Assembly, Java, SolidWorks certificate, CAD/CAM Software, 3D-Printing, Machining, OnShape, CNC, Strong Interpersonal communication