Jonathan Yuen

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EDUCATION

University of Illinois at Urbana-Champaign *B.S. Computer Engineering*   **Aug 2019 – May 2023**
GPA: 3.76   Urbana-Champaign, IL
Relevant Courses: Computer Systems & Structures, Data Structures & Algorithms, Digital Systems Laboratory, Machine Learning

SKILLS

Technical Skills: Python, Java, C++, C, HTML, CSS, SystemVerilog HDL, Microsoft Office, Adobe Suite
Language Proficiency: Mandarin (Bilingual)

EXPERIENCE

BP   **Incoming**
Incoming Data Analyst Intern   Chicago, IL
- Create technical solutions using modern data analytics tools to inform decision making analysts and drive revenue generation
- Partner with analysts to develop highly visual dashboards and visualizations web technologies and third-party frameworks

Abbott   **June 2021 – Present**
Research Park Student Researcher Intern   Champaign, IL
- Develop automated process for reporting energy usage at facilities
- Develop macros for excel spreadsheet

University of Illinois Civil and Environmental Engineering Department   **June 2021 – Present**
Undergraduate Student Web Developer   Champaign, IL
- Migrate and maintain the Illinois Transportation and Highway Engineering Conference and the Illinois Traffic Engineering and Safety Conference websites to the University of Illinois WordPress powered service
- Design and create optimized landing pages in HTML5 and CSS to support conference's marketing and promotional needs

Commvault   **Sept 2018 – Feb 2019**
Software Engineer Intern   Tinton Falls, NJ
- Regulated sub client access to shared drive by developing an ObjectStore security infrastructure of 7 whitelist C# REST APIs
- Increased backup storage capacity by 20% through implementing de-duplication algorithms in Python

PROJECTS

FPGA Mario   **February 2021 – May 2021**
SystemVerilog HDL, C   Champaign, IL
- Developed a Super Mario Bros. clone, complete with animation, enemy interactions, and upgrades, using the DE-10 Lite FPGA board and SystemVerilog
- Incorporated multiplayer functionality by creating a USB keyboard interface using SPI protocols written in C

OpenFlights Project   **February 2021 – May 2021**
C++, GDB   Champaign, IL
- Analyzed flights data including 8,000+ airports and 67,000+ routes by building a graph data structure using C++
- Collaborated with a team of 4 to write and test graph algorithms such as Dijkstra's Algorithm and PageRank Algorithm to search the network of airports and present paths between airports with routing options

2-D Computer Vision Gait Analysis   **Feb 2019 – June 2019**
Python, OpenCV, NumPy   Manalapan, NJ
- Modeled posture of a runner by locating and calculating angles of 7 mobility joints with Python script using OpenCV
- Recommended fitter running postures by examining biomechanical efficiency of a runner using Dr. Romanov's POSE method

LEADERSHIP & ACTIVITIES

Forage JPMorgan Chase Software Engineering Virtual Experience Program Participant   **May 2020 – Aug 2020**
- Illustrated stock price trend for a trader's interface using React.js and Node.js as a basis for data visualization
- Signaled profitable trade opportunity for 2 correlated stocks by developing a Python algorithm to model buy-sell strategy

Illini4000   **Oct 2019 - Present**
2021 Information Director, 2020 Rider   Urbana-Champaign, IL
- Selected to design and navigate 78-day, 5,000 miles coast-to-coast cycling route for the 2020 Bike Across America team
- Coordinated logistics for overnight accommodations, partnerships with the university and beneficiaries, and ride trainings
- Raised individually nearly $4,000 for cancer research and patient support services