

Jonathan Yuen

[linkedin.com/in/jonathanyuen66](https://www.linkedin.com/in/jonathanyuen66) • 732-810-9681 • jonathanyuen66@gmail.com

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, C++, Java, C, HTML, CSS, SystemVerilog HDL, Microsoft Office, Adobe Suite

Language Proficiency: English (Native/Bilingual), Mandarin (Native/Bilingual)

EXPERIENCE

BP

Starting Aug 2021

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

Starting July 2021

Incoming Research Park Student Researcher Intern

Champaign, IL

- Developed macros to automate the energy report out process to support Global Engineering Facilities Management

University of Illinois Civil and Environmental Engineering Department

June 2021 – Present

Undergraduate Student Web Developer

Champaign, IL

- Migrate and maintain 2 University of Illinois Civil Engineering conferences websites to publish.illinois.edu web hosting
- Design 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

Vetcove

July 2018 – Sept 2019

Marketing and Software Engineer Intern

New York City, NY

- Reduced product cataloguing time by 65% with development of a Python application to automate categorization
- Automated data collection of veterinarian contact information for mass marketing channels with design of a web scraper

PROJECTS

SystemVerilog Super Mario Clone

February 2021 – May 2021

SystemVerilog HDL, C

Champaign, IL

- Build Super Mario Bros. clone, with animation, enemy interactions, and upgrades, using DE-10 Lite FPGA board
- Incorporated multiplayer functionality by creating a USB keyboard interface using SPI protocols using C

OpenFlights Project

February 2021 – May 2021

C++, GDB

Champaign, IL

- Analyzed flights data from 8,000+ airports and 67,000+ routes by building a graph data structure using C++
- Collaborated with team of 4 to write and test graph algorithms such as Dijkstra's and PageRank to present 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

Urbana-Champaign, IL

- Delegated to design 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