Johnson He

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Objective: Seeking a position as a Google STEP Intern

Education

California Polytechnic State University ***San Luis Obispo, CA***

- Degree**:** Bachelor of Engineering in Computer Science *Sep. 2019 – Present*
- GPA: 3.76/4.0
- Dean's List Honors

Clayton High School **St. *Louis, MO***

- Graduated with High Academic Honors *Aug. 2015 - Jun. 2019*
- GPA: 3.78/4.0

Work Experience

AFP Power ***St. Louis, MO***

Web Development, Shipping/Storage *May. 2015 - Aug.2020*

- Worked in a solar and green energy company as a part time job during studies.
- Created and developed an ecommerce website for ease of access and shopping for online customers.
- Fulfilled and quickly shipped orders with accuracy in a stressful and fast paced environment, managed and organized storage in the most spatially efficient manner.

Mastercard ***St. Louis, MO***

Software Development Student *Jul. 2018 - Aug. 2018*

- Attended a summer software development workshop, deepened understanding of software development life cycle, coding, cyber security, automation, big data, AI, debugging, product development, technical consulting and technology innovation.
- Job shadowed many roles on the Digital Payment team including software developers, debuggers, scrum masters, technical leads, product delivery and more.

Selected Projects

Concordance *Spring 2020*

- Developed a program based in Python, which takes a txt file of text and a txt file of stop words, generates a word concordance in alphabetical order with line numbers (excluding stop words), which then outputs as a txt file.
- This program implements hash tables, Horner's rule to calculate hash efficiently, keys and Open Addressing using quadratic probing for collision resolution.

Huffman Program *Spring 2020*

- Program in Python which can encode and decode a txt file.
- Encoding: Counts the frequency of characters, creates nodes, constructs a Huffman tree from the nodes, builds an array for the character codes, and outputs a txt file of the encoded txt file in bits.
- Decoding: Given an encoded txt file, parses the header, creates a frequency list, uses the frequency list to recreate the Huffman tree from encoding, and outputs a txt file with the decoded text.

Personal Website *Winter 2020*

- Used HTML, CSS and JavaScript to create my own personal website to showcase education, personal projects, resume, and contact information. (https://j0hnson-he.github.io/)

Animation Project *Fall 2019*

- Used Java Script, CSS, and HTML to create an animation story with multiple scenes, particle systems, random generation, and interactive aspects.

Skills

Technical Skills Python, JavaScript, CSS, Java, HTML

Other Skills Photoshop, Illustrator, Docs, Sheets, Slides, Word, Excel, PowerPoint