Johnson He

Mobile: (314) 250-9608 **E-Mail:** johnson.he61@gmail.com **Website**: https://j0hnson-he.github.io/

Objective: Seeking a position as a Software Engineer 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, RISC-V, C/C++
Other Skills	Photoshop, Illustrator, Docs, Sheets, Slides, Word, Excel, PowerPoint