

# Johnson He

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Objective: Seeking a position as a Software Engineer Intern

## Education

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### California Polytechnic State University

*San Luis Obispo, CA*

- Degree: Bachelor of Engineering in Computer Science
- GPA: 3.74/4.0
- Dean's List Honors

*Sep. 2019 – Present*

### Clayton High School

*St. Louis, MO*

- Graduated with High Academic Honors
- GPA: 3.78/4.0

*Aug. 2015 - Jun. 2019*

## Work Experience

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### 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

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### 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://johnson-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

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### Technical Skills

Python, JavaScript, CSS, Java, HTML

### Other Skills

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