

# 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: 3.76/4.0
- Dean's List Honors
- All As in Computer Science courses

*Sep. 2019 – Present*

### Relevant Coursework

- CSA - Computer Science Applications (Java)
- CPE 123 - Introduction to Computing (JavaScript)
- CPE 101 - Fundamentals of Computer Science (Python)
- CPE 202 - Data Structures (Python)
- CPE 203 - Project based Object Oriented Programming and Design (Java)
- CSC 225 - Computer Organization (RISC-V & C/C++)

## 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.

## Work Experience

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### AFP Power

*St. Louis, MO*

*Web Development, Shipping/Storage*

*May. 2015 - Aug. 2020*

- Helped develop an ecommerce website for ease of access and shopping for online customers.
- Fulfilled and quickly shipped orders with accuracy, 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 the whole software development life cycle and shadowed many roles including software developers, debuggers, scrum masters, technical leads, product delivery and more.

## Skills

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### Personal Strengths

Adaptability, strong self discipline, hard working

### Technical Skills

Python, JavaScript, CSS, Java, HTML, RISC-V, C/C++

### Other Skills

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