# Education

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

* Degree**:** Bachelor of Engineering in Computer Science *Sep. 2019 – Present*
* GPA: 3.76/4.0

**Johnson He**

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**Objective:** Seeking a position as a Software Engineer Intern

* 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