

## Jose Manuel Fuentes

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### EDUCATION

**California State University, Long Beach**

Long Beach, CA

**Bachelor of Science in Computer Science**

GPA: 3.0 August 2019 - December 2023

**Relevant coursework:** Intro Networks & Distributed Computing, Database Fundamentals, Operating Systems, Data Structures, Object Oriented Application Development, Discrete Structure Computing Application II, Search Engine Technology, Mobile Application Development

### SKILLS

**Languages:** Python, C++, HTML, CSS, TypeScript, Java | **Libraries & Framework:** Angular, Vue Js, Flask, Bootstrap

**Databases:** SQL, MySQL, MongoDB, PostgreSQL | **Tools:** Git, Confluence, Jira, Figma, Vercel, MongoDB, Cloudflare

### PROJECTS

**Study Spot**

February 2023 - December 2023 | [Github](#)

**Technologies:** Angular CLI, HTML, Typescript, CSS, Python, Git, Jira, Figma

- A Full-Stack web application implemented using Python, Flask, PostgreSQL, SQLAlchemy, MySQL, and Angular offering students study spots areas at CSULB Campus with information including Wi-Fi and power outlet availability, user ratings, busyness functionality, and advanced filtering options.
- Worked as part of a 3-member team to construct the interface using dynamic Angular components, Angular material, and Python API.
- Constructed admin and user login pages with integrated validators to ensure that the values in the login page meet certain requirements.
- Designed and developed a review page using HTML, CSS, and Typescript to store user reviews.

**Search Engine**

September 2023 - December 2023 | [Github](#)

**Technologies:** Python, Git

- Created a Python application that searches through .json, .pdf, .txt files of a given query. Returns the total of documents and titles of any given folder of documents that satisfy the query.
- Accomplished a search engine using positional Inverted Indexes to allow users to find documents that contain specific sequences of words in a particular order
- Developed the building blocks of an inverted index by fetching the documents and stemming the Root Word using a token processor.
- Processed each token to an inverted index which keeps a dictionary of terms in the vocabulary. For each term in the dictionary, associate a postings list of which documents contain the term and position in the document.

**Portfolio**

February 2024 - March 2024 | [Github](#) | [View](#)

**Technologies:** Vue Js, Bootstrap, HTML, CSS, Javascript, Figma, Vercel, Cloudflare

- Developed portfolio website showcasing software engineering projects using Vue.js and Bootstrap
- Employed component-based architecture for reusability. Implemented responsive design principles using CSS for optimal viewing across devices

### WORK EXPERIENCE

**The Hall Coffee House - Barista / Server** | Wilmington, CA

February 2024 – Present

**Coast's Grocery & Liquor - Cashier / Stock Management** | Wilmington, CA

December 2018 – Present

### AFFILIATIONS

**Society of Hispanic Engineers** August 2019 – December 2023 Attended SHPE Conference 2023 - Salt Lake City, UT