

## 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, Kotlin, Java

**Technologies:** Angular, Flask

**Databases:** SQL, MySQL, MongoDB, PostgreSQL, SQLAlchemy

**Tools:** Git, Confluence, Jira, Figma, Jenkins, Dynamo DB

### 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.

### WORK EXPERIENCE

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

December 2018 – Present

- Arranged, restocked, and organized incoming merchandise flow and maintained the store floor.
- Programmed register embedded database to contain updated prices of all products
- Fixed register errors by 15% and improved accuracy of register transactions by 25%.
- Trained and supervised over 5 new employees on opening & closing duties and conducting inventory.

### AFFILIATIONS

**Society of Hispanic Engineers**

August 2019 – December 2023

- Attended SHPE Conference 2023 - Salt Lake City, UT