

# William Vuong

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## Projects

### **Spotify Music Advisor** (<https://github.com/vuongwill/SpotifyMusicAdvisor>) - *Language used: Java*

- An application that uses Spotify's web API to create lists and links to different playlists and albums.
- Parses through JSON data to find relevant titles and links for the user.
- Uses different searching algorithms to optimize search times.
- Uses user's personal Spotify account via OAuth for personalized suggestions.

### **Budget Manager** (<https://github.com/vuongwill/BudgetManager>) - *Language used: Java*

- A budget managing application that allows users to track expenses based on different categories.
- Allows user to save and load text files to add, edit or delete values from their budget manager. Useful for organizing by week/month.
- Uses different sorting algorithms to quickly identify what items and categories rank highest.

### **Database search** (<https://github.com/vuongwill/PhoneBookSearch/>) - *Language used: Java*

- A searching application that goes through a data source to find information about a given person.
- Utilizes different sorting (bubble sort, quicksort, etc.) and searching (linear, binary, jump, etc.) algorithms, as well as different data structures (lists, hash tables, etc.).
- Records the time taken for each algorithm in order to show time complexity.

### **CRUD Notes** (<https://etonote.netlify.app/>) - *Built using MERN stack*

- A note taking application that allows users to add, modify and delete notes.
- React.js was used as the front-end. Material UI was used for the design and layout, also used to add light and dark modes. Used Node.js/Express.js as the back-end. Connects to a MongoDB database.
- Built with a responsive design. DOM elements change based on screen size.

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## Education

### **University of California, Riverside**

*Class of 2019*

*Bachelor in Economics; Concentration: Finance*

Chancellor's Scholarship recipient

**Harvard CS50:** Introduction to Computer Science

**University of Helsinki:** Object - Oriented Programming with Java

**Princeton:** Algorithms I & II

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## Work Experience

### **Amazon Fulfillment Center** *Fontana, CA 92337*

#### **Associate Problem Solver** (September 2019 – February 2020)

- Identify, investigate and solve issues with packages to resolve tickets and maintain efficient work flow.
- Collaborated and communicated with managers to coordinate the optimization of the ticketing system. Resulted in an increase of efficiency by 20%.

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## Skills & Tools

**Languages:** Java, HTML, CSS, JavaScript, SQL,

**Libraries & Frameworks:** Node.js, Express.js, React.js

**Tools & Software:** MongoDB, Heroku, Git/GitHub, VS Code, NetBeans, IntelliJ