

# Mauricio Vinagre Hernandez

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github.com/mvh5

## WORK EXPERIENCE

### Oracle — Programmer Analyst

June 2019 - present

- Development of custom applications in Java, for Oracle Application Labs
- Support of Project Financial Management in Fusion ERP

### Swigel Capital Management — Java Developer Intern

Bellevue Washington January - April 2018

- Developed **Java/J2EE** system to pull large volumes of stock market data continuously, add the data into a **MySQL** database, while also creating Java entities for Business Logic and **API** endpoints
- Deployed system onto **Wildfly Server** to run continuously for all new stock market transactions

### Paul G. Allen Center for Computer Science and Engineering, University of Washington, Seattle — Teaching Assistant

January 2015 - March 2016

- Taught CSE 373: Data Structures and Algorithms.
- Led Quiz Sections for 100+ students, holding 200+ office hours over the course of 4 quarters of teaching.
- Drafted midterms and finals for entire classes, planned future coursework, and graded assignments.

## Personal/school PROJECTS

### To-do list app

- Developed a react application that allows the user to add and remove activities from a list.
- Utilized React components, API data fetching with Javascript.

### Bedu App

- Created a front end application that includes a table of employees, a rock-paper-scissors game and a calculator.
- Utilized Javascript (Node.js), HTML, CSS and DOM manipulation

### Word Frequency Analysis Program

- Implemented hash tables in Java using two different techniques: quadratic probing and separate chaining.
- Analyzed text file similarity by comparing word counts.

### T9 Cell Phone Predictive Text

- Implemented in C. Used the trie data structure and pointers.
- This program takes as input a series of numbers from the user, and outputs the predicted word, if it exists.

### Class Schedule Mobile App

- Created the frontend of an android application which displays a menu of courses.
- Developed in Android Studio. Used Recycler views, relative/linear layouts, fragments, seekbars, snackbars, among other tools.

### Sound Blaster

- Implemented the “backmasking” method to reverse a sound file
- Took in discrete data from .dat sound file or song, and outputted file that was the song or sound in reverse

## EDUCATION

### University of Washington

B.S. in Electrical Engineering

August 2017

## SKILLS

### Programming languages:

Java, C, Verilog,  
Matlab, Javascript, HTML, CSS,  
Python

### Database Experience:

SQL/MySQL/SQLite

### Tools/Technologies:

JUnit, Mockito, Linux, Shell  
Scripting, EJBS, WildFly, Git,  
DOM manipulation, Node.js,  
React

### Other:

Teaching (CS, languages),  
public speaking.

## Relevant Coursework

\*CSE 417 – Algorithms and  
Complexity Analysis  
\*CSE 414 – Database Systems  
\*CSE 374 – Linux and C  
programming  
\*CSE 469 – Computer  
Architecture / Verilog  
\*CSE 474 – Embedded  
Systems using Arduino  
\*Amath 301 – Scientific  
Computing : MATLAB  
\*BEDU Tech bootcamp:  
React JS

### Languages:

English, Spanish(native)

### Interests:

Spanish Tutor Volunteer