

# Javier Zarate

## Software Engineer

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### # Skills

**Languages and Frameworks:** JavaScript, React, HTML, CSS, Python, C++

**Databases and ORM's:** PostgreSQL, MySQL, MongoDB, Mongoose

**Tools and Testing:** Git, Github, Node, Express, EC2, AWS, Webpack, Babel, Jest, Enzyme, Mocha, Chai

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### # Software Applications

**Online Vacation Rental Marketplace** | Software Engineer | Javascript, React, CSS Modules, MySQL, Jest/Enzyme  
*Lodging booking application*

- Built modular structure in **React** for dynamic rendering and ease of code reuse.
- Deployed 5 **microservices** on **AWS EC2** instances conjoined by a proxy server incorporating compression middleware to optimize page load performance by 25% and obtaining a Google page score of 92/100.
- Utilized **Node.js** to create a powerful **RESTful API** that allowed the client and the server to communicate and retrieve data.

**E-Commerce Application** | Software Engineer | Node.js, Express, PostgreSQL, AWS/EC2, New Relic, K6  
*E-Commerce Product Description Page.*

- Optimized **PostgreSQL** database design to reduce individual query time from 5s to 20ms.
- Scaled the back-end to support over 2000 requests per second with a 0% error rate.
- Utilized **New Relic**, **K6**, and **Loader.io** to stress test query designs in **deployment**, reducing potential error rates by more than half.

**Toy OS** | Student | C++

*Mock OS simulating CPU/Assembler, Process Management, and Memory Management*

- Simulated a 16 bit CPU comprised of registers, Memory, and a Disk.
  - Added a process management layer by converting single-user OS to time-sharing OS.
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### # Experience

**Prime Communications** | Store Manager

2017 - 2020

- Created a python script to store leads extracted from customer transactions which led to 30 - 40% YOY sales growth for location and adopted by the district.
- Formulated ideas that generated 10-15% traffic growth YOY, which increased sales trends that were adopted market-wide.
- Recruited, trained, and coached staff while developing their sales strategies.

**The Home Depot** | Department Head

2016 - 2017

- Trained, coached, and developed over 50 associates priming them for promotional opportunities.
  - Developed strategic marketing techniques with strong product knowledge overall growing ties and opportunities with brands and sponsors.
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### # Education

**Hack Reactor** | *Advanced Software Engineering Immersive Program*

2020 - 2021

**California State University of San Bernardino**

2012 - 2017

*B.S. in Computer Science*

Courses: Computer Science, Operating Systems, Data Structures, Algorithm Analysis, Computer Architecture, Programming Languages, A.I.