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.

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.

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.