

Edgar Barrientos

Full Stack Developer | Secret Clearance

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Technical Skill

Front End: Javascript (ES5, ES6), React, HTML5, CSS3

Back End: Node.js, Express, PostgreSQL, MongoDB/Mongoose, MySQL, RESTful API Development

Testing/Deployment: Jest, Mocha, Chai, AWS EC2, Docker, NGINX

Developer Tools: Git, npm, Webpack, Babel, Agile Methodology, TDD

Applications

Trafalgar Group Travel and Guided Tours Mock-Up: React | HTML5 | CSS3 | MongoDB | Express

- Created an itinerary service, using a **service oriented architecture**, which lays out the schedule details for a chosen trip.
- Simulated a realistic travel map by appending and **manipulating svgs after render** using the **react lifecycle**.

REI Outdoor Clothing Website System Design: Postgres | MongoDB | K6 | AWS EC2 | Jest | Docker

- **Boosted performance** of PostgreSQL query speeds **by 2000%**. (slowest performing query speeds went from 20 seconds to 2 seconds on full text search with 10 million records) by conducting benchmark testing and **implementing TRGM GIN indexing**.
- **Raised throughput from 1250 rps** with a 1% error rate **to 10000 rps** with 0% error rate by adding a load balancer, 2 caching servers, and an app server.
- **Deployed on AWS EC2** micro instance using an **ubuntu server** and Docker containers

Chat Room Trivia: Postgres | Socket.io | React | Express | AWS EC2

- Created an app that **can host chat rooms** where players can participate in playing a trivia game by utilizing Socket.io for its **websocket** capabilities.

Professional Experience

US Army | Audio/Visual Information Technology Operator/Maintainer 2013 - 2018

- Provided technical support and troubleshooting on the Kodak Nexpress 3000 during multimedia operations that produced over 27 million products.
- Trained 50+ soldiers on operating and maintaining audio/visual information equipment.

US Army | Armorer 2014 - 2018

- Supervised over \$600,000+ of highly sensitive equipment which resulted in zero loss over 4 years.
- Maintained physical security standards and protocol for a company of 200+ soldiers where the company passed physical security inspections with a perfect track record.

Education

Hack Reactor - Advanced Software Engineering Immersive 2020

Fayetteville Technical Community College - Pursued Associate of Science 2015 - 2017

Defense Information School - Basic Television Equipment Maintenance 2013 - 2014