

# Jackie Santana

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## Summary

I'm all about software engineering – whether it's front-end design, back-end development, or anything in between. I love diving into code, building cool stuff, and staying on top of the latest tech trends. You'll find me constantly exploring new ways to make things better, faster, and more user-friendly. It's not just my job; it's what I love to do.

## Experience

**SENIOR SOFTWARE ENGINEER** | 02/2022 - Current

**BI Worldwide/ Verizon Wireless - Minneapolis, MN**

- **Designed and Implemented Reusable Libraries:** Utilized TypeScript, React & Material UI to create modular libraries, enhancing the development process across different internal projects.
- **Enhanced Performance through Optimization:** Addressed poor performance bottlenecks by strategically implementing React memoization hooks, focusing on computed values that are passed by value or reference, achieving a substantial improvement in render times.
- **Developed Recursive Comment Threads:** Engineered multiple recursive comment threads for various features, including recognizing nominee's/winners, thereby facilitating effective internal communication and engagement.
- **Contributed to Nominations and Recognition Platform:** Collaborated in the development of an internal nomination system to reward exemplary employees, fostering a culture of acknowledgment and motivation within the company.
- **Built Feedback and Open Ideas Hub:** Played a key role in constructing the "FeedbackHub," an internal platform for Verizon Wireless, where employees gather customer feedback, address issues, and share open ideas and surveys, contributing to the company's responsiveness to customer needs.

**SENIOR SOFTWARE ENGINEER** | 09/2021 - 02/2022

**Modis/Relx - Benbrook, TX**

- **Developed Legislative Search Query Tool:** Utilized the GraphQL framework and Apollo Client to build a sophisticated search query tool for legislative records, enhancing accessibility to important legal data.
- **Optimized Informix TypeScript React Application:** Applied React hooks such as useMemo & useCallback to optimize memory utilization within the Informix TypeScript React application, ensuring smooth performance and responsiveness.
- **Constructed Edit/Update Feature for Existing Records:** Leveraged GraphQL mutations and Apollo server's mutation resolvers to create a robust Edit/Update screen for existing records, incorporating Prisma as the Object Relational Mapping (ORM) tool.
- **Managed Database Connections through Prisma ORM:** Employed Prisma ORM to seamlessly connect to the MySQL database, executing SQL structured queries, resulting in efficient data retrieval and manipulation.
- **Collaborated using Git & AzureDevOps:** Utilized Git for version control and AzureDev Ops for source code collaboration on team projects, enforcing a 2-reviewer policy for pull requests to ensure code quality.
- **Agile Project Management & Communication:** Worked diligently on assigned features or bug tickets in 2-week sprints using Agile Methodology. Actively participated in daily stand-ups through Microsoft Teams and delivered monthly demo presentations to stakeholders, reflecting a commitment to transparency and ongoing progress.

## FULL STACK WEB DEVELOPER II | 01/2021 - 09/2021

### Brash Ent - Chesapeake, VA

- **Managed React Application on AWS EC2:** Oversaw the team's React Application on the AWS EC2 virtual private cloud server using a Debian Image Linux operating system, ensuring seamless deployment and consistent operation.
- **Utilized Docker for Deployment & Dev Environment:** Deployed Docker containers for both production and development, establishing a centralized operating system across the development team that enhanced stability and uniformity.
- **Implemented NGINX for Web Content & Load Balancing:** Employed NGINX to serve web content and manage load balancing, optimizing server responsiveness and reliability.
- **Automated Testing with Circle/CI:** Integrated Circle/CI for continuous integration/continuous delivery, enabling automated pipeline testing and maintaining standard practices and formalities.
- **Customized WebPack Configuration for React TypeScript:** Built a tailor-made WebPack configuration for development & production, emphasizing React TypeScript integration from scratch, enhancing performance over default CRA configurations.
- **Served Application with Node.js & Express Framework:** Utilized Node.js Express framework's middleware to serve the React TypeScript Application on an HTTP server, further integrating with NGINX's configuration for a cohesive setup.
- **Enhanced Security Measures:** Adopted Let's Encrypt for SSL certification, secured the Linux Server by removing root access, disabling default ports, setting up UFW firewall rules, blocking unnecessary ports, and enforcing SSH key authentication only, fortifying overall server security.

## FULLSTACK DEVELOPER | 02/2020 - 12/2020

### Cold Fusion - Sugarland, TX

- **Integrated Python Microservice with Node.js:** Utilized Python for script automation, managing CSV exports in React Frontend, and web scraping API data from internal resources, converting it into JSON data for streamlined processing.
- **Implemented AJAX for Data Fetching:** Employed AJAX to fetch JSON data, enabling the seamless implementation of the data as GraphQL Query & Mutation Resolvers, enhancing data manipulation and interaction.
- **Utilized Node.js, Express, TypeScript, and Prisma:** Leveraged the Node.js Express Framework along with TypeScript, TypeGraphQL, and Prisma Integration as an ORM with the PostgreSQL database, creating a robust and flexible backend structure.
- **Adopted Agile Methodology in 3-Week Sprints:** Employed Agile methodologies in 3-week sprint cycles, facilitating organized development, iterative progress, and efficient collaboration.
- **Communicated Collaboratively via Slack:** Utilized Slack for daily communication with engineers, designers, and the product manager, ensuring clear understanding and alignment across the team.
- **Engaged in Weekly Design & Product Meetings:** Actively attended and participated in weekly design and product meetings, delivering presentations on the React Front End Health Application, surgical procedural information, billing features, and later developments like a COVID data API using Python for web scraping.

## FULL STACK DEVELOPER/CONSULTANT | 01/2019 - 01/2020

### MRE Consulting - Houston, Texas

- **Leveraged GraphQL for User Data Management:** Implemented GraphQL to query user data and execute mutations to the database, seamlessly integrating these processes with the Frontend in React JS, enhancing user interaction and data handling.
- **Developed & Deployed Applications with MySQL/MongoDB:** Gained extensive experience in developing and deploying robust applications using both MySQL and MongoDB, showcasing adaptability with different database technologies.
- **Optimized Web Applications with Custom React Webpack:** Crafted highly interactive web applications using a custom React webpack configuration in React JS, with plugins for gzip and image compression, ensuring high performance on both Mobile and Desktop platforms.
- **Implemented SEO with Node.js:** Utilized Node.js to enable Search Engine Optimization based on Google bots' indexing algorithm, increasing online visibility and search rankings.
- **Built Cross-Platform Sales Training Portal:** Created an online sales training portal using HTML, CSS, and Vanilla JavaScript, alongside Apex in Salesforce CMS, tailored to train new sales staff for an Oil Rig company based out of

SugarLand, demonstrating expertise in multi-platform development.

#### **NODE.JS/UI DEVELOPER** | 01/2018 - 11/2018

##### **Enquire Solutions - Houston, TX**

- **Integrated Apex Chart.js for Real-Time Visualization:** Utilized Apex Chart.js within the React JS Front End Application to create real-time interactive data visualizations, showcasing company sales gains/loss and expectations based on scientific data, enhancing analytical insights.
- **Connected Front End to Back End with Node.js:** Leveraged Node.js to form a seamless connection between the front end React application and the back end, ensuring smooth data flow and interaction.
- **Customized MongoDB Applications for Clients:** Designed and developed bespoke MongoDB applications tailored to specific client needs, demonstrating a client-centric approach and innovative problem-solving.
- **Incorporated Modules into Node.js:** Skillfully implemented modules into Node.js, integrating them with designs and requirements, facilitating customized solutions and functional enhancements.
- **Employed Apollo-Server with Express for Data Querying:** Used Apollo-Server in conjunction with Express integration to query JSON data, transferring it to Apollo on the client side for precise data output, improving data handling and responsiveness.

#### **FULL STACK DEVELOPER** | 05/2017 - 12/2017

##### **RJS Associates Inc. - Glastonbury, CT**

- **Optimized Performance with Redux:** Leveraged Redux and complex Object-Oriented concepts to enhance website performance, focusing on efficient state management and responsive user interactions.
- **Expertise in Angular Development:** Demonstrated proficiency in using Angular Directives, Controllers, Filters, Services, Templates, Events, and Injectors, employing the full spectrum of Angular capabilities to create dynamic and interactive web applications.
- **Strong Foundation in Node.js & Express Framework:** Utilized Node.js and the Express Framework in the development of robust web applications, showcasing a strong understanding of back-end technologies and middleware integration.
- **Integrated REST API for SEO Enhancement:** Worked with REST API and server-side template engines to improve Search Engine Optimization (SEO), ensuring that web content is accessible and ranks favorably in search engine results.

#### **PYTHON/FLASK DEVELOPER** | 10/2016 - 04/2017

##### **TouchSource - Glastonbury, CT**

- **Developed Web Applications Using Flask:** Utilized Flask frameworks and the Model-View-Controller (MVC) architecture to create streamlined and maintainable web applications, emphasizing modularity and design efficiency.
- **Designed & Implemented Company API:** Developed and designed a robust API (RESTful Web Service) for the company's website, enhancing interconnectivity and data handling capabilities.
- **Crafted UI Screens with Various Technologies:** Designed UI screens using Jinja in Templates, Ajax, HTML, and JSON, employing JavaScript for client-side validation, resulting in interactive and user-friendly interfaces.
- **Managed Customer Relationship Databases:** Maintained customer relationship management databases utilizing MySQL and PostgreSQL, ensuring accurate and organized data storage, facilitating effective customer engagement and insights.

#### **FRONT END DEVELOPER** | 06/2016 - 10/2016

##### **Zag Interactive - Glastonbury, CT**

- **Analyzed & Enhanced UI/UX Design:** Conducted comprehensive analysis of UI/UX design to ensure a responsive layout, focusing on improved usability and user satisfaction.
- **Revamped E-Commerce Site UI:** Transformed the UI and app interface for a high-traffic e-commerce site with 200,000+ unique visitors, aligning the design with modern aesthetics and functional improvements.
- **Automated Image Optimization for Performance:** Leveraged parcel bundler to automate image optimization and minified JS and CSS, resulting in reduced page load times by up to 30%, enhancing user experience and site efficiency.
- **Customer-Centric Collaboration:** Collaborated closely with customers to determine needs and explore design

options, ensuring solutions were tailored to client preferences and requirements, fostering satisfaction and trust.

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## Skills

- **Web Development:** HTML, CSS, Sass, Bootstrap, Tailwind CSS
- **Scripting Languages:** JavaScript, Typescript
- **JavaScript Frameworks & Libraries:** React, Vue.js, Angular, Gatsby Js, Next Js
- **Back-End Development:** Node.Js, Express.js, REST API, Authentication, GraphQL
- **Programming Languages:** Go/Golang, Python
- **Databases:** MongoDB, Redis, Firebase, MySQL, PostgreSQL
- **Web Frameworks (Python):** Flask, Django
- **Containerization & Virtualization:** Docker, Linux
- **Continuous Integration & Continuous Delivery:** Circle Ci, Testing
- **Cloud Computing & Virtual Private Servers:** AWS, Linode, Digital Ocean
- **Content Management Systems:** WordPress

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## Websites, Portfolios

- <https://jackiesantana.net>
- <https://github.com/jackie1santana>

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## Education and Training

### **New York Real Estate Institute - New York, Ny**

Real Estate Agent, 05/2018

### **LaGuardia Community College - GED**

07/2011