

# Sandra Chaparro, BSCS

## Software Engineer

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JavaScript | ReactJS | MongoDB | Agile

SQL | JAVA | Linux | Git | Github | NodeJS | ExpressJS | HTML | CSS | Typescript | C++ | PHP

Scrum | Kanban | Python | DevOps | CI-CD Pipelines | Docker | K8S | OAuth | REST API

Mastering Generative AI and LLM

### SUMMARY

Software Engineer with a strong foundation in full-stack web development, specializing in React.js, JavaScript, and Express.js. Experienced in designing and implementing scalable, maintainable, and multitenant applications, integrating RESTful APIs, and managing databases like MongoDB and MySQL. Skilled in CI/CD automation to streamline deployments and enhance system reliability. Adept at collaborating in Agile teams, and passionate about artificial intelligence (AI), machine learning, and cybersecurity, with a solid understanding of Java and Python fundamentals.

### WORK ACHIEVEMENTS

- Successfully designed and launched multiple responsive websites for small businesses, enhancing their digital presence and improving user engagement by optimizing SEO, performance, and load speeds.
- Led the development of a ReactJS dashboard integrated with OAuth 2.0 and Jira API, streamlining project data access and reducing deployment times by 20% through CI/CD automation using Azure Pipelines.
- Enhanced team productivity by implementing multitenancy in NextJS applications, integrating Jenkins for CI/CD, and optimizing Docker containers, improving deployment efficiency and scalability for various client projects.

### PROFESSIONAL EXPERIENCE

#### Front End Web Developer

Allen, TX

July 2024 - current

##### SWITECH

- Designed and developed responsive websites for small businesses using ReactJS, JavaScript, HTML, and CSS and tailwind.
- Collaborated with business owners to understand their requirements and translated them into functional, visually appealing web applications.
- Optimized websites for speed, SEO, and performance, improving visibility and user engagement.
- Troubleshooted and resolved technical issues, ensuring smooth website functionality and minimal downtime.
- Deployed and maintained websites using Vercel.
- Utilized Git for version control, collaborating efficiently on project iterations and updates.

#### Computer Science Tutor (Part Time)

Remote

Dec 2022 - July 2024

##### Superprof

- Employed diverse teaching methodologies such as: pair programming, interactive online platforms, hands-on coding labs, and lecture-based teaching to meet individual student needs.
- Assisted more than 15 students with homework, projects, and test preparation.
- Guided students in understanding programming concepts and code sections using clear and accessible language and focusing on student-centered approach.
- Improved students' average exam scores by 15% through targeted tutoring sessions focused on problem areas, and reduced average project completion time by 20% through effective project planning.

#### Software Engineer Co-Op (Full Time)

Allen, TX

May 2022 - Oct 2022

##### Motorola Solutions, Inc,

- Developed a ReactJS dashboard with OAuth 2.0 for secure user access.
- Integrated Jira API to dynamically retrieve and display project data from multiple sites improving data accessibility by 40%.
- Applied agile scrum practices to deliver iterative feature enhancements, ensuring timely and effective execution.
- Designed back-end connections and APIs with NodeJS and ExpressJS, and created front-end designs using ReactJS, and Bootstrap, which enriched user experience by 30% based on user feedback.
- Participated in daily standups
- Implemented (CI/CD) using Azure Pipelines, achieving a 20% reduction in deployment time.
- Optimized disk usage by cleaning unused Docker images.
- Consistent updates to Azure DevOps board tickets for enhanced clarity on issue resolution and progress.
- Acquired foundational knowledge of Kubernetes and container orchestration principles during development.
- Modified YAML files for deployment configurations as needed.
- Troubleshooted and debugged code to identify/fix causes of errors, improving the app's stability and reducing downtime.
- Conducted tasks using Linux and shell for file management, process management, package management, and version control.

**Stylo's Boutique/Flexi**  
**Assistant Manager – Data Entry**

Mexico

June 2012 - April 2017

- Supervised and provided support to over 3 locations, ensuring smooth operations and adherence to company policies and procedures.
- Troubleshooted computer systems for employees across multiple locations, resolving technical issues promptly to minimize downtime and maintain productivity. Achieved an average response time of less than 30 minutes for resolving computer-related issues.
- Assisted in generating sales reports and analyzing key metrics to identify trends and opportunities for improvement. Improved sales performance by 10% through strategic analysis and targeted initiatives.
- Performed data entry tasks during the transition to a new software system, ensuring accurate and timely transfer of data. Successfully migrated data for 3 locations, maintaining data integrity and minimizing disruption to operations.
- Managed inventory across multiple locations, optimizing stock levels and reducing excess inventory by 15% through efficient inventory management practices.

**PROJECTS**

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**Full Stack Developer**

Plano, TX

February - March 2025

**Dallas Software Developers-COHORT**

- Created wireframe using Figma for UI/UX design.
- Designed and implemented NextJS application using Typescript and Tailwind for front end development and ExpressJS for server configuration.
- Engineered the application with multi tenancy in mind, allowing seamless scalability to support multiple organizations or user groups in the future.
- Collaborated with the team to design, develop, and deploy the application while adhering to coding standards and best practices to ensure maintainability and scalability.
- Managed server operations using Linux commands for file handling, process monitoring, and user management.
- Developed APIs using Express.js, implementing efficient routing, middleware, and database integration for backend services, and testing APIs with Postman.
- Implemented JWT authentication in Express.js to securely manage user authentication and authorization.

**Software Developer**

Plano, TX

March - April 2024

**Dallas Software Developers-COHORT**

- Built a grocery management tool using ReactJS that suggested more than 100 recipes based on available ingredients, and generated grocery lists based on desired meal prep.
- Collaborated across the software development life cycle (SDLC), including requirement analysis, design, development, testing, deployment.
- Integrated a recipe API to provide preparation instructions, and nutritional data.
- Designed and managed a MongoDB backend, effectively storing API data and custom user information, resulting in a 30% increase in data retrieval efficiency.
- Timely updates to Kanban Board for solution implementation visibility and milestones.

**EDUCATION**

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**Fort Hays State University**

June 2019 - Completed Dec 2022

**Bachelor Degree of Science in Computer Science and Information Systems Engineering.**

- Successfully delivered Full Stack Development projects with Javascript, PHP, NodeJS and express within specified timeframes and received positive feedback.
- Relevant coursework includes Data Structures and Algorithms, Object-Oriented Programming, Database Systems, Software Engineering, Seminar in Software Engineering, and Web Development (front end and back end).
- Deployed 2 web applications using Heroku and Netlify.
- Member of The National Society of Leadership and Success (NSLS) year of 2020.
- Member of The Honor Society of Phi Kappa Phi year of 2021.
- Graduated with a GPA of 3.69/4.0.

**VOLUNTEER EXPERIENCE**

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**Front End Developer and Marketing**  
**Hispanohablantes de North Texas**

December 2022 - Present

- Creativity and innovation in developing marketing materials and posts on social media.
- Proactive and adaptable, with a willingness to take on new challenges and responsibilities.
- Developed static site with ReactJS and tailwind, perform debugging, and continually monitor speed, load times, site and page appearance, and mobile responsiveness.
- Optimized website content for search engines using different SEO strategies, tools such as detailed SEO extension, SEMrush, and Ubersuggest.
- Coordinating all the necessary activities and resources to meet deadlines and achieve desired outcomes.
- Planning, organizing, and directing the contemplation of specific projects while ensuring projects are on time, and within scope.