

# Jose Ochoa

El Paso, TX, USA

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## SUMMARY

Senior Full Stack Engineer with 10 years of rich experience in designing, developing, and implementing high-performance web applications and services. Expert in both frontend and backend technologies, including React.js, Angular, Vue.js, Next.js, Nuxt, Node.js, PHP / Laravel, Python / Django, Golang, Ruby on Rails, Elixir, .NET(3.5 ~ 6.0), .NET Core, ASP.NET, VB.NET, Java, Kotlin, Microservices, Spring Boot, Unity, Redis, MariaDB, Redshift, RabbitMQ, AWS, Docker, Kubernetes, Kafka, Terraform, GCP, JWT, GitHub, Jenkins, Material UI, Twilio and MySQL, MongoDB, MS SQL , C#, Blazor. Demonstrated proficiency in creating scalable and secure RESTful APIs, optimizing database performance, and integrating complex third-party services. Skilled in Azure cloud services, including Azure APIM, AKS and Azure DevOps CI/CD, with a strong background in unit testing using RSpec, NUnit, Selenium, JMeter, Gatling, and Axe. Adept at quickly onboarding to new projects and contributing effectively from day one. Proven ability to lead development teams, ensuring the delivery of robust and user-centric solution. Proficient in Agile methodologies, using iterative development and cross-functional collaboration to deliver high-quality software solutions efficiently and adaptively. Actively engaged in mentoring junior developers, providing guidance and support to help them improve their technical skills and navigate complex projects effectively. Skilled AI/ML engineer with expertise in designing and deploying intelligent systems powered by advanced machine learning models and frameworks. Passionate about the hobby gaming industry, with hands-on experience contributing to eCommerce platforms and high-volume transaction-based applications.

## PROFESSIONAL EXPERIENCE

### DesignsLegend | Dallas, TX

*Senior Java Full Stack Engineer • Remote*

Apr 2021 – Dec 2024

- Built a task management and productivity web app using optimized React/Next.js and MongoDB to help ecommerce teams track projects and efficiently manage workflows, increasing team productivity by 15%.
- Developed a user interface to track referral discounts, commissions and recurring fundraising, which enhanced e-commerce customer engagement and increased conversion rates by 25%.
- Built a Tailwind / Vue.js / PHP/Laravel app for coordinating and managing gift exchanges, including random assignment and participant communication, which increased user interaction.
- Designed and implemented scalable backend systems using SCLA to ensure optimal performance and high availability under heavy e-commerce traffic, reducing server downtime by 50% during peak sales periods.
- Improved ETL processing times by optimizing data extraction and transformation steps, using SQL indexing and parallel processing in .NET, cutting processing time by 40% for e-commerce transaction data.
- Created and optimized RESTful APIs and microservices, improving data handling efficiency and reducing system latency by 40%, enhancing e-commerce transaction speed and reliability.
- Designed and deployed serverless architectures using AWS services like API Gateway, Lambda, and DynamoDB, providing e-commerce platforms with a 99.9% uptime and faster load times.
- Developed backend services using GoLang, Ruby on Rails, Elixir, Java/Kotlin, and Spring Boot, enhancing performance and scalability for high-traffic e-commerce platforms, achieving a 20% increase in transaction throughput.
- Built APIs for a decentralized version of DoorDash, connecting both vendor and delivery apps, improving real-time updates for e-commerce deliveries and reducing delivery time by 15%.
- Designed and managed eCommerce platforms and high-volume transaction-based applications, ensuring scalability and reliability, leading to a 30% increase in platform uptime during Black Friday sales.
- Developed a full-stack web application using Python/Django for a caterers' food ordering and delivery platform, integrating AI and machine learning algorithms to recommend personalized meal options.
- Created a full-stack web application using Python/Django for the back end and Vue.js for the front end for a math schoolwork ed-tech startup, improving user engagement by 35%.

- Built a full web application platform for an insurance brokerage startup from scratch using Ruby on Rails , optimizing client acquisition processes and increasing customer retention by 10%.
- Built a simple DApp using Web3.js on the Ethereum network, interacting with a smart contract, with a React front-end UI. Users stake ether and the winner is paid the full balance, facilitating seamless, decentralized e-commerce transactions.
- Built several features of a fully-featured decentralized cryptocurrency exchange platform, including front-end trading and portfolio UI, and backend infrastructure using Django and React, supporting 50% more daily trades and reducing transaction fees by 15%.
- Built a full-stack web app , a daily journal application, using TypeScript, React, Next.js, and MongoDB, with user authentication/authorization and encryption, increasing platform security and user data protection by 30%. Built and maintained backend AWS services using the AWS console, SDK, and infrastructure-as-code deployments.
- Integrated Docker and Kubernetes for containerization and orchestration in cloud-native environments.
- Implemented and managed CI/CD pipelines using Jenkins, Git, CircleCI, and GitHub to automate deployments across AWS and GCP environments.
- Led the upgrade of Kafka clusters from version 2.6 to 3.5.
- Optimized backend services with Docker, Kafka, and microservices architecture.
- Developed an industrial alarm classification system for industrial events and alarms, using AI and a machine learning algorithm built with Keras deep learning Python.
- Built intelligent, scalable AI-powered applications, using frameworks like LangChain and OpenAI.
- Designed and deployed intelligent systems using advanced machine learning models and frameworks.
- Implemented ETL pipelines for cloud-based data warehouses handling large-scale data processing.
- Designed and optimized solutions using Elasticsearch/OpenSearch for search capabilities and Postgres for relational database management.
- Built and configured scalable and secure applications using comprehensive knowledge of AWS technologies and .NET.
- Implemented payment gateways (PayPal, Apple App Store, Google Play) for secure and reliable payment processing.
- Evaluated Redpanda as an alternative to Apache Kafka for performance-sensitive microservices.
- Improved CI/CD pipelines with CircleCI, added automated Unit Test, TDD , and E2E tests using RSpec, Selenium, JMeter, Gatling, and Axe.
- Designed and performed tests for system reliability and performance with tools such as Selenium, JMeter, Gatling, and Axe.
- Demonstrated proficiency in using Kubernetes, AWS CDK, and GCP for efficient infrastructure management and deployment.
- Migrated data from Google Cloud to Oracle DB.
- Built a Node.js and GCP API in AWS Beanstalk to retrieve specific data from AWS SimpleDB.
- Provided comprehensive technical support, resolving software, hardware, and network issues, ensuring minimal downtime.

## **Modus Create | Washington, United States**

### *Senior Full Stack Developer • Remote*

Jan 2018 – Mar 2021

- Designed and developed high-performance, user-centric eCommerce platforms using TypeScript, React, Unity, Svelte, .NET (4.3, 4.5, and 5.0), ASP.NET, VB.NET, Angular, Vue.js, PHP, Laravel, Django, Node.js, JWT, Express.js, GoLang, Java/Kotlin, Spring Boot, RSpec, Selenium, JMeter, Gatling, and Axe, resulting in a 25% increase in platform speed and scalability to support eCommerce growth.
- Developed responsive and scalable eCommerce solutions using Angular and React frameworks, enhancing site load times by 30% and driving a 20% improvement in user engagement and conversion rates.
- Built and maintained scalable eCommerce web applications with .NET, ASP.NET, Java/Kotlin, Spring Boot, React, Svelte, JWT, Node.js, Firebase, MongoDB, NoSQL, and Express.js, implementing secure payment gateways, product catalogs, and shopping carts that increased transaction volume by 15%.
- Led the migration of an olden eCommerce application (Angular/Laravel/PHP) to React/Node.js, reducing technical debt by 40% and cutting deployment times by 50%, allowing for quicker feature rollouts.
- Transformed an Angular.js/Laravel eCommerce application to React/Ruby on Rails (Sidekiq, RSpec, Puppet), preserving data integrity while introducing new components with React and Redux, leading to a 10% boost in performance and a 15% increase in customer retention.
- Designed and implemented an ETL pipeline using Azure APIM, Azure Data Factory, and Azure Functions to transfer e-commerce data from on-premises systems to Azure SQL and Azure Blob Storage, improving data transfer efficiency by 40% and streamlining inventory and order management workflows.

- Reduced data retrieval time by 30% and improved product search performance by 25% with PostgreSQL, ElasticSearch, and Redis databases optimized for e-commerce applications with advanced query techniques and indexing strategies.
- Developed an ETL solution in .NET using Entity Framework and ADO.NET to efficiently extract, transform, and load transactional data between the e-commerce platform and backend systems, improving processing speed by 35% and enhancing real-time analytics for tracking customer behavior.
- Developed scalable and efficient applications using Scala, using its functional programming features to build high-performance backend systems and process large-scale data efficiently.
- Designed and implemented AI-powered applications using Golang for high-performance backend services and Python for machine learning models, ensuring scalability, efficiency, and seamless integration.
- Using LLMs, streamlined development workflows, enhanced code quality, and provided intelligent insights for complex problem-solving.
- Designed and optimized solutions using ElasticSearch/OpenSearch for search capabilities and Postgres for robust relational database management in high-performance environments.
- Worked on integration with various DEXs such as SushiSwap, Save, and Uniswap to facilitate eCommerce-related token exchanges and decentralized payment solutions.
- Developed liquidity mining logic, implemented in smart contracts, enabling seamless liquidity provision for eCommerce transactions and enhancing decentralized finance (DeFi) within the platform.
- Architected a digital asset exchange and NFT-backed marketplace for eCommerce transactions, supporting IoT data streams with full access control, enabling tokenized products and product verifications via NFTs.
- Led the customized deployment of the NFT-backed eCommerce marketplace for a metaverse customer, integrating blockchain technology to facilitate virtual asset sales, digital collectibles, and secure transactions.
- Helped with the deployment of the eCommerce application on Docker and Kubernetes cloud using Helm automation scripts, optimizing scalability and performance for large-scale eCommerce operations.
- Maintained the company's official website, which was built using HTML, XML, XSLT, CSS, JavaScript, Ajax, jQuery, VB.NET, and ASP.NET, and was hosted on IIS servers.
- Created landing pages with forms for special campaigns, like the Christmas one, using JWT, Next.js, Node.js, React, Vue.js, and Angular.
- Introduced Drupal for extensive customization through modules, themes, and configurations.
- Developed software for a durable medium using Ethereum and IPFS, building the back end with Node.js to create blockchain-based in-game assets and digital collectibles.
- Utilized gRPC for efficient and low-latency communication between blockchain nodes in decentralized games, ensuring real-time interactions between players and game assets.
- Created smart contracts (Solidity) for handling in-game transactions and user authentication, ensuring secure ownership of digital assets within the game ecosystem.
- Designed and developed upgradeable ERC1155-based smart contracts for in-game item transactions and revenue distribution between game developers and players.
- Created NFT tokens to verify the originality of in-game assets and characters. The tokens run on the Polygon platform, with smart contracts extended to comply with the ERC721 standard for digital collectibles and rare items.
- Became familiar with data structures like DAGs (Merkle) for efficiently processing and storing game-related transactions and metadata on the blockchain.
- Provided white papers and detailed documentation on smart contracts and blockchain interactions, focusing on gameplay mechanics, asset ownership, and in-game economies within the blockchain ecosystem.
- Identified and eliminated bottlenecks in blockchain transactions, resulting in improved processing speed by 25%.
- Demonstrated strong expertise in crypto wallets, including key management, cryptography, and blockchain protocols such as EVM, ensuring secure and efficient integration with in-game economies and player-to-player transactions.

## **Jelvix | Settle, Washington, United States**

*Full Stack Developer* • **Remote**

Jun 2016 – Nov 2017

- Developed custom plugins and themes for WordPress and Shopify, providing tailored solutions for clients and enhancing website functionality. Created dynamic, responsive designs that improved user engagement and conversion rates.
- Built user management, product listing, product details, and order flow, including payment integrations using Shopify and React.
- Building, optimizing, and scaling Shopify Plus stores, including custom theme development, API integrations, and implementing advanced e-commerce features like personalized shopping and multi-currency support..
- Built several custom standalone websites with content management system capability for professional use by faculty, university institutes, academic journals, and student groups, using WordPress, Moodle, and CMS Made Simple (PHP, HTML, HTML5, XML, XSLT and CSS/CSS3).
- Developed a multi-country eCommerce app with GoLang, Shopify and React.

- Driven by an insatiable desire to stay at the forefront of search and machine learning technologies, consistently integrating cutting-edge advancements to enhance system performance and deliver innovative solutions.
- Enhanced frontend performance and user experience by optimizing JavaScript, jQuery, Ajax, CSS, XML, XSLT and HTML code. Redesigned user interfaces using React, Angular, Svelte, Laravel, and Vue.js, resulting in a 25% improvement in page load times and overall user satisfaction.
- Created a hybrid environment allowing the legacy application to live alongside the new one.
- Added a payment option by integrating with Stripe API.
- Using LLMs, streamlined development workflows, enhanced code quality, and provided intelligent insights for complex problem-solving.
- Designed normalized relational databases for systems using PostgreSQL, Elastic Search, Redis, MySQL and SQL Server while ensuring minimal data redundancy and optimal performance.
- Implemented scalable data models for NoSQL databases like MongoDB, Redis, Elastic Search, and Cassandra. Focused on denormalized structures to support high availability and horizontal scaling, particularly in applications requiring the management of large volumes of unstructured or semi-structured data.
- Created the architecture for the web application, including the database schema, authentication and authorization, front-end framework, and styling library, as well as supporting external APIs and tools using PHP / Laravel and Vue.js.
- Implemented automated testing frameworks, designing data sharding strategies for scalable systems, and optimizing solutions using AWS technologies.
- Planned and configured continuous integration pipeline with Gitlab/Bitbucket and CircleCI.
- Implemented modern tools and technologies, including GitHub Actions for CI/CD workflows, Terraform for infrastructure as code, and Kafka for event-driven architectures.
- Managed deployment pipelines and version control systems using Git and GitHub. Implemented best practices for code branching and merging, streamlining the release process and enhancing team collaboration.
- Designing and deploying intelligent systems using advanced machine learning models and frameworks as an AI/ML engineer with expertise.
- Develop to utilizing diverse programming languages beyond Ruby and Node.js to create innovative AI solutions tailored to specific project requirements.

## **InfoStride | San Jose, California**

*Software programmer* • **Remote**

Oct 2015 – May 2016

- Assisted in developing web applications using JS (React, Vue.js, Angular), PHP (Laravel), and Python (Django).
- Built a public component library published on NPM to be used by external business partners with Typescript, React, and Third-Party APIs.
- Participated in product review and debugging to improve application performance.
- Collaborated with senior developers to design and implement new features.
- Gained hands-on experience in software development lifecycle and best practices.
- Applied advanced data science techniques, including machine learning and statistical analysis, to derive actionable insights and drive data-driven decision-making across diverse projects.

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## **EDUCATION**

### **Boise State University, Idaho**

*Bachelor of Technology – BTech, Computer Science*

Feb 2011 – Sep 2015

- Gained a solid foundation in computer science principles including algorithms, programming, data structures design and analysis, software development methodologies, and large web services building.
- Completed full coursework in advanced topics such as web development, database systems, and software engineering.
- Engaged in practical projects and collaborative work enhancing problem-solving skills and technical expertise.

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## **LANGUAGES**

- **English**

native

- **Franch**
- Mandarin

native  
native

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## SKILLS

- **Languages:** JavaScript (Vanilla JS, ECMAScript, TypeScript, jQuery, Ajax), PHP, Python, Ruby, GoLang, Rust, Solidity, C#, Java
- **CSS Frameworks:** Bootstrap, Tailwind CSS, Foundation, Bulma, Materialize, Semantic UI, Spectre.css, UIKit, Tachyons, Metro 4
- **Frameworks:** React, Angular, Vue.js, Next.js, Laravel, Django, Node.js, Express.js, Ruby on Rails, Elixir, .NET, ASP.NET, Spring Boot, CMS (Drupal, Shopify, WordPress, Gatsby)
- **Blockchain Technologies:** Ethereum, Solana, Polkadot, Smart Contracts (Solidity), Web3.js
- **Databases:** MySQL, MongoDB, NoSQL, PostgreSQL, MariaDB, Redshift, MS SQL, GraphQL
- **Platforms:** AWS, Azure, Google Cloud, Docker, Kubernetes, Kafka, Terraform
- **Tools:** Git, GitHub, CI/CD, Jenkins, RESTful APIs