

ATREYU SANTIAGO

Senior Full Stack Developer

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Summary

I'm a highly adaptable and versatile software engineer with a passion for crafting elegant and efficient solutions to complex problems. I have built and maintained software applications and have led teams to do the same.

I enjoy mentoring and guiding fellow engineers, helping to increase team velocity and deliver high-quality products.

My experience spans from fast-growing startups to top global tech companies, where I have had the opportunity to learn and grow as a professional in various settings.

I strive to adapt and contribute effectively to each unique environment, always aiming to collaborate and help teams achieve their goals. I am always eager to take on new challenges and continue learning.

If you'd like to connect, collaborate or discuss opportunities, please feel free to reach out. Let's create something amazing together!

Skills

- ✓ **Programming Languages:** JavaScript, Typescript, C#, Python, Java, PHP, HTML, CSS
- ✓ **Frontend Libraries, Frameworks:** React(16.8+), React Native, Next, Angular 2+, Ionic 2+, Vue2+, Nuxt, Redux, Redux saga, Redux Thunk, Mobx, NgRx, RxJS, Flux
- ✓ **Mobile Development:** Android Development, Kotlin, Jetpack Compose, Android Jetpack, Android SDK, Dependency Injection (Dagger, Koin)
- ✓ **UI/UX :** Material-UI, Tailwind CSS, Ant Design, Bootstrap, Styled component, Chakra-UI, Kendo UI, Angular Material, Angular-CDK, SASS, LESS
- ✓ **Backend Frameworks:** Node, Express, Nest, Django, FastAPI, ASP.NET, Laravel, Spring Boot
- ✓ **Database:** PostgreSQL, MySQL, MongoDB, Redis, Snowflake, Firebase, Room Database, SQLite
- ✓ **Web & Mobile Optimization:** Code Splitting, Lazy Loading, SSR/CSR, Tree Shaking, Multithreading (Kotlin Coroutines, RxJava)
- ✓ **Communication API:** RESTful APIs, GraphQL, Axios, Fetch API, Apollo Client, Firebase Integration, Push Notifications, Retrofit, JSON Parsing
- ✓ **Cloud Development & DevOps:** AWS(EC2, ELB, Lambda, ECS, EKS, S3, DynamoDB), Google Cloud, Microsoft Azure & DevOps, Docker, Kubernetes
- ✓ **Third party APIs:** Shopify, Stripe, PayPal
- ✓ **Architecture:** SPA, Micro Frontend, Microservices, Serverless, SSR, SSG, PWA
- ✓ **Development Methodology:** Scrum, Kanban, TDD, BDD
- ✓ **CI/CD:** Jenkins, Git(GitHub, Bitbucket, GitLab), Jira, Trello, ClickUp
- ✓ **Testing:** Cypress, Jest, Enzyme, Storybook, JUnit, Espresso, Mockito, Selenium
- ✓ **Machine Learning & AI:** TensorFlow/Keras Library(Python)
- ✓ **Other:** Responsive Web Design, UI/UX Design Principles, Cross-Browser Compatibility, Agile/Scrum, Play Store Deployment, CI/CD Pipelines (App Center)

Experience

Freelancer

Freelance

Jul 2024 - Present

Ellenwood, Georgia

- ✓ Developed and delivered scalable web applications for clients in e-commerce, healthcare, and finance using **React**, **Next.js**, **Node.js**, and **Express**.
- ✓ Built custom, responsive user interfaces optimized for performance and accessibility, applying **WCAG** and **ARIA** standards for maximum usability and compliance with accessibility guidelines.

- ✓ Designed and implemented **RESTful APIs** to ensure smooth communication between frontend and backend components. Leveraged **Node.js** and **Express** to enhance real-time data handling and improve user engagement.
- ✓ Created dynamic dashboards and **data visualization tools** using **D3.js** and **Chart.js**, providing clients with actionable insights and supporting strategic business decisions.
- ✓ Integrated cloud services including **AWS** and **Firebase** to improve application scalability, data storage, and reliability, ensuring robust backends for clients' data needs.
- ✓ Managed **multiple freelance projects** effectively, meeting deadlines and maintaining high standards in deliverables. Cultivated a client base with repeat engagements and positive referrals due to reliable, high-quality service.
- ✓ Kept current with emerging technologies and frameworks in web development, continuously enhancing client offerings with the latest advancements to ensure applications remained competitive and valuable.

Senior Software Engineer

Oct 2023 – Jun 2024

Token Metrics

Austin, Texas

- ✓ Developed reusable components using **React**, **Vue**, **Next.js**, **Nuxt.js**, and **Angular**, creating modular, maintainable code for multiple enterprise-level projects.
- ✓ Built various screens and features for mobile applications using **React Native**, leveraging **NPM** packages and **Redux** for state management to enhance user experience and optimize application performance.
- ✓ **Led** frontend architecture efforts, ensuring **pixel-perfect** design implementation and maintaining a high standard of visual accuracy across screens.
- ✓ Applied advanced **data visualization** techniques with **D3.js** to represent complex data as intuitive visuals, such as points, bars, lines, and timelines, effectively communicating insights to users.
- ✓ Tackled complex data management through an **ETL** solution using **.NET SSIS** and **SSMS**, enhancing data processing and integration for enterprise applications.
- ✓ Built **API-driven** backend services designed for integration with the Horizon Allegro application within a microservices architecture, ensuring modularity and scalability of backend systems.
- ✓ Employed a variety of testing frameworks including **Jest**, **Mocha**, and **Cypress** to ensure application stability, reduce bugs, and maintain code quality across development cycles.
- ✓ Contributed to **Ethereum** blockchain development specifically focused on healthcare applications, exploring distributed ledger solutions to address industry-specific challenges.
- ✓ Conducted **A/B testing** and utilized **Google Analytics** to gain insights into user behavior, optimizing product details based on customer data and feedback.
- ✓ Experienced in **cross-platform mobile development** with **React Native** and **TypeScript**, delivering seamless mobile applications that are compatible across **iOS** and **Android** platforms.

Senior Software Engineer

Feb 2022 – Sep 2023

Curitics Health

West Covina, California

- ✓ Designed and developed patient-facing dashboards using **React**, providing intuitive access to medical information and improving the user experience for both patients and healthcare providers.
- ✓ Enhanced telemedicine platform UI by implementing responsive design in **React**, ensuring a seamless user experience across desktop, tablet, and mobile devices to support remote consultations.
- ✓ Collaborated with healthcare providers and **UX/UI** teams to optimize patient experience, building clear and user-friendly React components that make complex health data accessible and understandable.
- ✓ Implemented **JWT**-based authentication within **React** applications to ensure secure access to patient records, meeting **HIPAA** compliance requirements for data privacy.
- ✓ Integrated payment processing in React applications using third-party gateways such as **Stripe** and **PayPal**, enabling secure and convenient transactions for users.
- ✓ Integrated **FHIR** (Fast Healthcare Interoperability Resources) APIs in React applications, facilitating secure, standardized data sharing across platforms and improving care coordination among healthcare teams.
- ✓ Developed a **React**-based appointment scheduling system that allows patients to book, manage, and receive reminders for appointments, improving patient engagement and reducing missed appointments.
- ✓ Built reusable React components for displaying **EHR** (Electronic Health Record) data, incorporating advanced search and filtering to enhance data accessibility for healthcare professionals.

- ✓ Improved accessibility in React applications by adhering to **WCAG** standards and incorporating **ARIA** roles, ensuring that healthcare apps are usable by individuals with disabilities.
- ✓ Integrated real-time chat and notifications using **WebSocket** APIs within **React**, enabling instant communication between patients and healthcare providers for timely support and urgent inquiries.
- ✓ Led the development of symptom checkers and health assessment tools in React, enabling patients to self-assess symptoms and take proactive steps in preventive care.
- ✓ Optimized React application performance to efficiently handle large volumes of patient data, ensuring smooth and reliable operation in high-traffic healthcare environments.
- ✓ Implemented end-to-end testing using **React Testing Library** and **Jest**, achieving high test coverage to maintain the robustness of critical healthcare applications.
- ✓ Developed analytics dashboards in **React** to provide healthcare administrators with real-time insights into patient interactions, supporting data-driven decisions and improving patient care outcomes.
- ✓ Built secure, user-friendly patient portals in **React** to allow patients to view lab results, care plans, and billing information in a centralized, secure location.
- ✓ **Mentored** junior developers on best practices for handling healthcare data and developing in **React**, ensuring code quality, security, and compliance in sensitive healthcare applications.

Full Stack and Mobile Developer

Jun 2021 – Jan 2022

Truckpedia

Los Angeles, California

- ✓ Developed and maintained **React**-based dashboards for fleet management, enabling trucking companies to monitor vehicles in real time, track maintenance schedules, and optimize routing to reduce fuel consumption.
- ✓ Integrated **real-time GPS tracking** into React components, providing live location updates for trucks and enhancing delivery transparency. This allowed dispatchers to make real-time decisions based on current traffic conditions.
- ✓ Enhanced application state management with **Redux** to streamline data flow between modules, including vehicle status, maintenance logs, and fuel metrics, minimizing data inconsistencies across the fleet management system.
- ✓ Built and implemented load management tools in **React** to assist logistics coordinators with efficient load allocation, factoring in truck availability, distance, and driver capacity to optimize operations.
- ✓ Integrated **REST APIs** into **React** to enable dynamic data retrieval, allowing fleet managers to monitor load assignments, schedules, and driver statuses in real-time.
- ✓ Debugged a mobile **MVP** application across various elements, including Flutter, Stripe, Firebase cloud functions, the admin panel, and deployment on the App Store/Google Play, improving overall stability and usability.
- ✓ Integrated **Firebase** for **authentication**, **push notifications**, and **error tracking** to enhance user engagement and streamline app functionality.
- ✓ Developed a hybrid app for users to curate and organize favorite content collections, improving user retention and content discoverability.
- ✓ Converted a website into a native **React Native** app for iOS and Android, integrating **Node.js**, **MongoDB**, and third-party libraries to enhance mobile accessibility for a startup.
- ✓ Designed a credit-based payment system with premium plans by integrating **Stripe** API with **Node.js**, supporting scalable payment functionalities for premium user services.
- ✓ Implemented **AWS S3 bucket** integration and **Node.js cron jobs** to monitor subscription statuses using In-App Purchases (IAP), improving subscription handling and revenue tracking.
- ✓ Built a map-based social network from scratch using **React Native**, **MapBox**, **Firebase**, **Heroku**, **Node.js**, and **MongoDB**, allowing users to connect and share locations on an interactive map.
- ✓ Designed React-based driver logbooks with user-friendly forms for easy logging of hours of service (**HOS**), ensuring compliance with Department of Transportation (**DOT**) regulations.
- ✓ Utilized **React Testing Library** and **Jest** to write unit tests for critical features, such as load assignment tracking and maintenance reminders, ensuring accurate functionality across high-priority operations.
- ✓ Implemented **push notifications** in a React-based driver app, alerting drivers to new assignments, route changes, and important company updates to improve communication and efficiency.
- ✓ Optimized React app performance for high-volume data processing, ensuring the efficient handling of large data sets for shipment details, vehicle telemetry, and driver logs.
- ✓ Configured **AWS Workspaces** for developers to facilitate streamlined collaboration, aligning development environments with overall system requirements.

- ✓ Set up **SAML** login and **SSO** with **Duo** as the identity provider, enhancing security and simplifying user access.
- ✓ Integrated AI models for complex transaction data handling using **TensorFlow** and **Keras**, adding predictive analytics and operational insights to logistics data.
- ✓ Integrated third-party mapping and routing APIs in **React**, enabling dynamic route planning to help dispatchers optimize delivery routes based on real-time traffic, weather, and road conditions.
- ✓ **Collaborated** closely with **backend teams** to improve API interactions with the React frontend, ensuring accurate and real-time data updates for logistics operations and enhancing the end-user experience.

Senior Software Engineer

Oct 2019 – May 2021

Coach

Los Angeles, California

- ✓ Developed **responsive web interfaces** for high-profile clients in medicine, insurance, and technology sectors, ensuring optimal performance and seamless UX across mobile, tablet, and desktop devices.
- ✓ Designed and implemented a responsive e-commerce UI using **React** as part of a digital transformation initiative, providing a high-performance, cross-platform experience that boosted customer engagement.
- ✓ Leveraged **React** and **Next.js** to build intuitive, user-centric interfaces, prioritizing performance and SEO optimizations to enhance page load speed and overall user engagement.
- ✓ Built a strong test foundation with **React Testing Library**, **Jest**, and **Cypress**, achieving 80% test coverage, which substantially improved code reliability, stability, and ease of maintenance.
- ✓ Integrated **GraphQL** queries and mutations with **Apollo Client** in **React**, streamlining data-fetching strategies, reducing server load, and providing faster data responses for enhanced user experience.
- ✓ Built reusable and feedback-driven components in **React** and **TypeScript**, accelerating development and ensuring scalable, modular design for improved code maintainability and reusability.
- ✓ Implemented **Context API** and **Redux** for efficient state management, handling complex data flows to minimize re-renders and boost application responsiveness.
- ✓ Applied **ARIA** roles and adhered to **WCAG** standards in React applications, enhancing accessibility for users with disabilities, ensuring inclusive web experiences that align with industry standards.
- ✓ Implemented secure **JWT**-based authentication to restrict access to sensitive data within **React** applications, ensuring data security and regulatory compliance.
- ✓ Actively contributed to all phases of the **SDLC**, from Requirement Analysis to Maintenance, demonstrating extensive experience in **Agile** and **SCRUM** methodologies for efficient, collaborative project delivery.
- ✓ **Mentored** junior developers in **React** best practices, offering guidance on component reuse, efficient debugging techniques, and best coding practices, fostering skill development and teamwork.
- ✓ Utilized **React hooks** for functional component management, simplifying codebases and enhancing the readability, reusability, and scalability of components.
- ✓ Enhanced project scalability by modularizing code in **React**, isolating business logic, and reducing cross-component dependencies, enabling faster turnaround times and more efficient development cycles.

Full Stack Developer

Sep 2016 – Sep 2019

Nationwide Marketing Group

Winston-Salem, North Carolina

- ✓ Led the development of **Angular** and **React**-based web applications, delivering advanced **UI/UX** that significantly improved user engagement and usability.
- ✓ Enhanced e-commerce projects with **SEO** optimizations by implementing server-side rendering (**SSR**) in **React** and **Next.js**, leading to improved search engine visibility and faster page load times for end users.
- ✓ Implemented robust authentication and authorization using **OAuth 2.0** and **JWT**, securing data and managing access control across e-commerce platforms to protect user information and prevent unauthorized access.
- ✓ Applied **ARIA** roles and **WCAG** standards to improve accessibility in **React** applications, ensuring compliance and creating inclusive, user-friendly experiences for individuals with disabilities.
- ✓ Utilized **styled-components** and **CSS Modules** in **React** projects, building a responsive design system that enhanced code organization and streamlined the UI/UX consistency across components.
- ✓ Built an admin portal with advanced form functionalities including auto-complete, auto-filling, and complex validation rules, improving data accuracy and user experience in data entry-intensive applications.
- ✓ Implemented a high-performance search engine using **GraphQL** and **Elasticsearch** with **PostgreSQL**, optimizing data retrieval speed and relevance, which improved the search experience for users.

- ✓ Enhanced data management by implementing both **SQL** and **NoSQL** databases, including **MongoDB** and **AWS DynamoDB**, ensuring flexibility, scalability, and optimized data retrieval for applications with diverse data structures.
- ✓ Contributed to the solutions architecture community by sharing best practices and promoting intellectual capital reuse, which supported the development of scalable and reusable components.
- ✓ Configured **SAML** login and Single Sign-On (**SSO**) using **Okta** as an identity provider, improving security and user convenience across multiple applications within the organization.

Frontend Developer

Apr 2014 – Aug 2016

Spreadshirt

Las Vegas, Nevada

- ✓ Enhanced **global state management** across Spreadshirt's e-commerce platform by implementing a modular structure, ensuring seamless data flow across critical components, including product catalog, shopping cart, and user profile sections.
- ✓ Refactored the React application from JavaScript to **TypeScript**, improving code reliability, scalability, and type safety, resulting in reduced errors and a more efficient development process.
- ✓ Developed a **custom API integration layer** for reliable and secure communication with backend services, optimizing data retrieval for high-demand components such as product listings, user accounts, and checkout.
- ✓ Created a **reusable UI component library** to maintain a cohesive design across the application, enabling consistent branding across product pages, cart, checkout, and customer account sections.
- ✓ Implemented flexible CSS modules and CSS preprocessors like **SASS** for structured styling, improving readability and reusability of styles across multiple sections and reducing redundant code.
- ✓ Leveraged **TypeScript** interfaces and **types** to ensure consistent data handling within complex forms and components, reducing runtime errors and enhancing the accuracy of key user actions such as payments and order customization.
- ✓ **Collaborated** closely with design and front-end teams to define essential UI components, ensuring the library provided consistency while allowing flexibility for custom campaigns and special product categories.
- ✓ Improved **state and data flow management** by organizing components into modular units, enhancing performance for actions like product filtering, cart updates, and personalized user recommendations during high-traffic shopping periods.
- ✓ Created detailed **documentation** for the custom component library and API integrations, allowing streamlined onboarding for new developers and efficient knowledge transfer within the team.
- ✓ Conducted **unit** and **integration testing** on the custom API layer to ensure reliable data flow and accuracy across various state scenarios, including high-traffic periods and complex multi-product orders.
- ✓ Enhanced **error handling** within the custom API layer, improving stability and reliability for Spreadshirt's customer-facing components and backend processes.
- ✓ Enabled **asynchronous data loading** in API calls, allowing product listings and user dashboard updates without blocking UI elements, resulting in a more responsive user experience during peak traffic.
- ✓ Streamlined **state management practices** through efficient data handling and clear data structure, supporting Spreadshirt's rapid deployment of new features and application updates.

Full Stack Developer

Sep 2012 – Mar 2014

JumpCloud

Los Angeles, California

- ✓ Developed and maintained dynamic web applications, delivering exceptional user experiences through responsive and intuitive interfaces built with **Ember.js**.
- ✓ Engineered scalable backend services using **Java** and **Spring**, crafting efficient RESTful APIs to power frontend applications while prioritizing data security and performance.
- ✓ Built initial architecture and front-end for new clinical service platform.
- ✓ Built endpoints on backend side utilizing **Node**, **Express**, **JavaScript**.
- ✓ Collaborated effectively throughout the entire development lifecycle, from requirements gathering to deployment, to deliver high-quality, scalable applications.

Frontend Developer

Jan 2011 – May 2012

Novatech

Nashville, Tennessee

- ✓ Implemented fast **JavaScript** algorithms to optimize client-side performance, significantly improving page load times.

- ✓ Collaborated with **UX/UI** design teams to enhance the checkout flow, increasing conversion rates by 20%.
- ✓ Automated image optimization using **Grunt**, minified JS, and **CSS**, reducing page load times by 86%.
- ✓ Completed the first phase of a client's **CRM** system development, resolving significant technical debt.

Software Developer Intern

Aug 2010 – Dec 2010

Salesfusion

Atlanta, Georgia

- ✓ Developed a web-based application to improve internal workflow management, collaborating with senior developers.
- ✓ Followed best practices for code quality, conducting code reviews, and adhering to coding standards.
- ✓ Optimized existing code to enhance application performance and user experience.
- ✓ Participated in regular training sessions on new technologies and methodologies for continuous personal and professional growth.

Education

Georgia State University

Jul 2010

Bachelor's degree in Computer Science

Projects

- ✓ **Coach:** Retail Apparel and Fashion (<https://www.coach.com>)
- ✓ **Mattressland:** E-Commerce Website (<https://mattressland.com/>)
- ✓ **Curitics:** Low-code platform for value-based care (<https://curiticshealth.com/>)
- ✓ **Token Metrics:** Best Crypto Research and AI Analytics Platform (<https://www.tokenmetrics.com/>)
- ✓ **Truckpedia:** Transportation management platform (<https://dashboard.truckpedia.io/>)
- ✓ **Glass.health:** Knowledge base and collaboration portal (<https://glass.health>)
- ✓ **Spreadshirt:** Global platform for personalized clothing and accessories (<https://spreadshirt.com>)
- ✓ **Appruv:** A loan management platform for sales officers (<https://appruv.com/>)
- ✓ **Jumpcloud:** Cross-OS Device Management (<https://jumpcloud.com/>)
- ✓ **Health Care by Food:** American Heart Association Food is Medicine Initiative (<https://healthcarexfood.org/>)
- ✓ <https://apps.apple.com/us/app/truckpedia-driver/id6450277393>
- ✓ <https://apps.apple.com/us/app/kangaroohealth/id1455687417>
- ✓ <https://play.google.com/store/apps/details?id=com.kangaroohealth.hop>
- ✓ https://play.google.com/store/apps/details?id=com.fluznyc&hl=en_US&gl=US
- ✓ <https://apps.apple.com/us/app/fluz-cashback/id1419812499>
- ✓ https://play.google.com/store/apps/details?id=com.flashfoodapp.android&hl=en_IN&gl=US
- ✓ <https://apps.apple.com/ca/app/flashfood-grocery-deals/id1187314160>
- ✓ <https://play.google.com/store/apps/details?id=com.makemytrip>
- ✓ <https://apps.apple.com/in/app/makemytrip-flight-hotel-bus/id530488359>