

RYAN TEODORO

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WORK EXPERIENCE

Arbol – New York, New York

July 2025 - Present

Senior Software Engineer

- Develop automated ETL pipeline to ingest third-party data via APIs, reducing manual data processing time and enabling near real-time policy data synchronization using Python, deployed to AWS cloud infrastructure (ECR/ECS), and orchestrated using Prefect.
- Develop and maintain full-stack web platform enabling parametric insurance products for climate perils (precipitation, temperature, wildfire), supporting risk assessment and policy management workflows.
- Build scalable features using React, TypeScript, Node.js, and GraphQL APIs integrated with Hasura/Nhost, deployed on AWS infrastructure (ECS, ECR, S3).

4ccessible – Houston, TX

June 2023 - July 2025

Founder, CEO

- Founded and led mission-driven startup developing AI-powered products that help blind and visually impaired users navigate the web more effectively.
- Architected scalable backend APIs using TypeScript, Node.js, Express, PostgreSQL, and Kysely; integrated OpenAI for LLM-driven operations and Stripe for billing; deployed infrastructure across DigitalOcean and AWS.
- Developed an end-to-end voice synthesis pipeline using Python and the open-source Vosk model for automatic speech recognition (ASR); summarized transcripts via OpenAI's GPT; and generated narrated recaps using a custom-trained ElevenLabs voice model.
- Designed and implemented multiple responsive and accessible frontend apps using React, Next.js, Redux Toolkit, and Tailwind CSS.
- Recognized as an SXSW Innovation Award finalist; accepted into Google for Startups (Tokyo) and AWS Startup Loft (Tokyo).

Shell – Houston, TX

January 2019 - June 2023

Senior Software Engineer

- Frontend tech lead for strategic deal analyzer application developed using React, Redux, TypeScript, D3.js, and Styled Components (CSS-in-JS). Project delivered \$38M – \$57M in business value and was nominated for the VP CIO award in Shell Chemicals.
- Tech lead for the Shell Energy Insights Green Dealer initiative geared towards making it easier for customers to manage day-to-day energy needs while increasing efficiency, managing costs, and addressing decarbonization goals. Frontend built using React, TypeScript, Redux Toolkit, Styled Components. Deployed to AWS@Shell via GitHub Actions.
- Tech Lead for the Customer Order Visibility Experience project built using React, GraphQL, Apollo, and Styled Components which aimed at providing Shell customers real-time information regarding their bulk chemical deliveries.
- Nominated to serve as a Shell Design System Champion to provide steer on future features and releases and contribute to inner source component code through bug fixes and code enhancements.
- Managed application security by leveraging static code analysis tools (e.g., SonarQube) and dependency scanners (e.g., Mend [formerly Whitesource]) to comply with strict organization standards.
- Contributed updates and fixes to application CI/CD pipeline configurations using CircleCI, Docker, Kubernetes, and GitHub Actions.
- Wrote unit, integration, and E2E tests using Jest, Enzyme, React Testing Library, and Cypress following BDD/TDD methodologies.

- Coordinated with design, product, and engineering resources to ensure Scrum sprints were on track and tasks/stories were prioritized well with the end-user experience at the center of all decisions.
- Assisted recruiting efforts within the Houston offices through phone screens, technical code assessments, and onsite interviews.

BlueLine Rental – The Woodlands, TX

January 2018 - December 2018

Senior Web/Mobile Developer

- Engineered web and mobile applications to support digitalization efforts that led to a \$2.1 billion acquisition by United Rentals.
- Developed iPad application for shop mechanics using React and Cordova in order to facilitate paperless service work for rental equipment by communicating with backend RentalMan systems.
- Extensive feature implementations and bug fixes to the customer web application (React/Redux), careers site (WordPress), and company website (WordPress).
- Created miscellaneous Node.js scripts to facilitate business operations, improve overall safety within the delivery truck fleet, and ensure data consistency on the website by communicating with multiple systems across the organization (Salesforce, Geotab, Rentalman).
- Prototyped a mobile application using React Native and Expo to explore more performant alternatives to existing Cordova solutions.
- Configured and managed Ubuntu and CentOS environments to run production Node.js and PHP applications using Apache and Nginx.
- Worked closely with agencies to oversee development work and to facilitate the migration of data and tasks to inhouse servers, repositories, and teams.

University of Houston – Houston, TX

January 2017 - December 2017

Mobile Application Developer

- Core contributor for the university's official mobile app built using Ionic, Cordova, and Angular in conjunction with the UH APIs (Node.js and PHP).
- Built a live chat widget for the UH Information Technology website using Vue.js and WebSockets to enable visitors of the site to communicate with support agents in real time.
- Designed a RESTful API using Node.js, Express, and MongoDB for managing real-time parking lot capacity information on the school campus.
- Extensive training and technical advising to entry, junior, and senior-level colleagues on all aforementioned systems and topics.

Bouncing Pixel – Houston, TX

August 2015 - November 2016

Software Developer

- Developed models, views, and controllers for the Diabetes Family Teamwork program, a web application built for the Baylor College of Medicine using the Laravel PHP framework and PostgreSQL to educate families on how to manage diabetes through informational videos and quizzes.
- Programmed core game logic for Word Hero, an iPad game created using Unity and C# to help suicidal patients make more life-oriented decisions through cognitive bias modification.
- Designed database schemas and implemented backend functionality for the Love Meter, a cross-platform mobile application built using Meteor, MongoDB, and Mongoose to facilitate the communication of love languages between loved ones.
- Created responsive web layouts using Dust.js and fully custom CSS to avoid third-party framework dependencies for the Question Big website running on Node.js.

Hewlett-Packard – Houston, TX

June 2013 - August 2015

IT Engineer/Analyst

- Full-stack development for the Channel Services Network web application (ASP.NET).
- Assisted in critical move-to-production (MTP) operations and testing.

- Obtained Salesforce Developer certification and led training sessions for colleagues.
- Migrated in-house operations to the Salesforce platform for server warranty entitlement processing.

ACTIVITIES AND CERTIFICATIONS

- Youth Leadership Council - VP of Technology, Executive Board Member (**2014 - 2017**)
- Lean Six Sigma White Belt Certified (**2015**)
- Salesforce Certified Force.com Developer (**2014**)

EDUCATION

University of Houston - Victoria – Victoria, TX
Bachelor of Science, Computer Science

May 2013