

Nicholas Genco

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SUMMARY

I build scalable, high-performance frontend architectures for enterprise software. My focus is modernizing legacy systems into maintainable, reusable UI ecosystems using the React/Preact stack, TypeScript, and component-driven design. I specialize in design system engineering, performance optimization, accessibility and creating component libraries that accelerate development at scale.

At Oracle, I architected reusable Web Component libraries that improved development velocity by over 30% and cut bundle sizes by 40% across multiple enterprise modules. I've led the adoption of TypeScript across legacy codebases and helped evolve a more modern engineering workflow for internal teams.

Core Strengths: React/Preact Ecosystem · TypeScript · Web Components · UI Modernization · Design Systems · DX Tooling · Enterprise Frontend

EXPERIENCE

Software Engineer III | Oracle | Remote | August 2022 - Present

- Modernizing Oracle's enterprise UI ecosystem by converting legacy Knockout/JET modules into scalable ES6/TypeScript + Preact Web Components, improving maintainability and shared adoption across product teams.
- Delivered a reusable component library used across 10+ internal enterprise modules, reducing duplicated logic and increasing developer velocity by 30%.
- Spearheaded frontend architecture patterns that optimize bundle size and DX workflows; reductions of up to 40% for heavy UI modules.
- Engineered high-performance client-side components built for real-time data rendering and strict enterprise accessibility needs.
- Tech: Preact (React ecosystem), TypeScript/ES6+, Web Components, Node.js, HTML5, CSS3, Knockout

Software Engineer II | Oracle | Boston, MA | June 2020 - August 2022

- Refactored legacy UI systems into flexible shared components that aligned with scalable frontend architecture standards.
- Led a team of interns converting large JET/Javascript modules to TypeScript, improving type safety and toolchain consistency across multiple teams.
- Partnered with UI architects to streamline patterns for reusable components and internal design standards.
- Tech: TypeScript, ES6, Knockout, Node.js, HTML/CSS

Software Engineer I | Oracle | Boston, MA | March 2019 - June 2020

- Built accessible enterprise UI components with end-to-end design participation.
- Implemented scalable UI enhancements and resolved production defects across customer-facing modules.
- Prototyped lazy-loading data providers that were later leveraged in high-scale environments.
- Tech: TypeScript, jQuery, Knockout, Node.js, HTML/CSS

Software Engineer | CAMP Systems International, Inc. | Ronkonkoma, NY | March 2018 - February 2019

- Developed front-end modules for aviation asset management platforms used by enterprise clients.
- Ensured compatibility across multiple hardware/third-party integrations.
- Tech: C#, Ext JS, ASP.NET, Oracle SQL

Web Developer | Garment Printer Ink | North Port, NY | January 2018 - March 2018

- Built web modules for the Magento and Joomla platforms.
- Created relational databases used for shipping, inventory, and e-commerce.
- Served as a system administrator for a large e-commerce business.
- Tech Stack: Magento, Joomla, JavaScript, CSS, AWS.

Software Engineer | Ibiniex | New York, NY | September 2017 - December 2017

- Developed crypto liquidity solutions for brokers and traders.
- Designed custom tokens according to the Ethereum ERC-20 standard.
- Designed and maintained multiple user interfaces used to display client-consumed information.
- Implemented client-specified features on top of previously existing WebSocket and RESTful APIs.
- Tech Stack: Blockchain, Angular 2, PHP, MySQL, Node.js.

EDUCATION

Bachelors of Science: Computer Science (BS) | Stony Brook University

Stony Brook, NY | 2018

Associates of Science: Computer Science (AS) | SUNY Westchester

Valhalla NY | 2015