

Henry Navarro

Experienced Software Engineer

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Engineer/Designer/Innovator with 15+ years of technical leadership in software and systems design and engineering. Proven track record delivering effective user experiences across various business verticals. Effective contributor in the areas of performance, security and best practices. Keen eye for optimization and process improvement. Team player and collaborator across all organizational roles. STEM and business education-B.S. in Physics and Computer Engineering, Certificates in Human Computer Interaction and Product Management.

Technical Skills

- Frontend: Modern Web Applications, React, TypeScript, JavaScript, NextJS, HTML5/CSS3, Animations, Component Libraries
- Backend: NextJS, NodeJS, GraphQL, SQL, Redis, Microservices, API Design
- UX Design: HCI and UX principles, Figma
- Architecture: Systems design, Code organization
- Build and Deployment: Git, CI/CD pipelines, automation testing
- Content Management: Joomla, PHP
- Machine Learning: Python, ML Process Framework, Data Analysis
- AI: OpenAI LLM, LangChain, Vector Stores, Prompt Engineering
- And others

Vertical Experience

- E-Commerce: Purchase configuration, checkout and payment
- Financial Technology: Retirement planning interfaces and user flows
- Blockchain and Decentralized Applications
- Content Management (CMS)
- Internet-of-Things: Edge device integration, data collection and analytics
- Developer Support: Application web kits, Design systems, Component libraries
- Healthcare: Clinician interfaces, health information workflows
- Renewable Energy: Solar panel UI, data collection and analytics, customer interfaces
- Video streaming: Video UI & interactivity, streaming server and ad integration, data analytics
- And others

Notable Contributions

Volvo Cars, 2023 - Product UI Architecture

Designed and implemented nimble frontend architecture that supports frequent product changes in multiple countries, sales models, product lines; significant reduction in website maintenance

Edelman Financial Engines, 2019 - Rapid Prototyping and PoC

Designed and developed web interfaces, infographics and marketing assets for novel gamified retirement planning application; led a team of developers across global timezones

GE Software, 2017 - Developer Acceleration

Implemented starter web kits that enabled rapid prototyping of applications running on GE Predix platform. Used in multiple verticals (Aviation, Energy, Transportation, Healthcare)

GE Software, 2015 - Component Libraries

Implemented several UI components of the official GE Software design system, improved build and deployment process, accelerating development initiatives

CBS Interactive, 2009 - Flash Video Player

Architected and led implementation of company's very first robust, Flash-based online streaming video player, providing stable and scalable delivery of video content for many years

Latest Employment (Past 10 Years)

Senior Software Engineer, Volvo Cars, Nov 2020 - Dec 2023

Frontend feature implementation, product architecture innovations, software process improvements, code delivery maintenance, code review, UX review, work planning, vendor liaison, mentoring, technology evaluation

Senior Design Technologist, Edelman Financial Engines, Jul 2019 - Nov 2020

Architect/Staff-Level Engineer/Designer performing lead roles in UI design and development, systems design and process optimization. Built from the ground up multiple product websites. Led team of local and offshore engineers

Senior UI Engineer, BlockRules, Oct 2018 - March 2019

Frontend UI design and development of digital currency account setup and trading. Created operations monitoring dashboards for blockchain transactions.

Senior UX Design Technologist, GE Digital, Nov 2015 - May 2018

UI Engineer and Designer. Implemented re-usable UI components and developed web application starter kits that accelerate product prototyping. Designed interactive visual diagrams that illustrate product vision.

Senior Software Engineer, GE Healthcare, Aug 2014 - Oct 2015

Frontend UI design and development in eHealthcare platform. Implemented UI security layer that became standard for entire platform.

Senior Software Engineer, ABB Solar Group, Jul 2012 - Jul 2014

Frontend UI design and development in Renewable Energy Monitoring solutions. Enhanced monitoring web applications for solar panels. Created interactive prototypes for envisioned next-generation products

(Complete work history information available upon request)

Education & Training

Product Management Certificate, The Product School — May 2020

Certified Product Owner and Scrum Master, Scrum Alliance — May 2016

Essential Leadership Skills, GE Leadership Program — June 2015

Graduate Certificate in HCI, Iowa State University — December 2012

MBA Units, California State University East Bay — December 2005

Certificate in Computer Networks, UC Santa Cruz Extension — May 1999

Bachelors in Physics and Computer Engineering, Ateneo de Manila — March 1992

Courses recently completed and on-going in AI, Data Science, Machine Learning, Game Design, Process Automation and others