

VALERY NGUYEN

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[PORTFOLIO](#)

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SKILLS

JavaScript, React.js, Redux.js, GraphQL, HTML5, CSS3, Ruby, Rails, Express.js, Node.js, MongoDB, PostgreSQL, Microsoft SQL Server, Docker, Kubernetes, GCP, Heroku, Git

EXPERIENCE

Software Engineer

AlertEnterprise

Sep 2019 – Present

- Collaborated on a team of 6 to architect the infrastructure solutions for new cloud-based product services running on Google Cloud Platform.
- Containerized microservices using Docker and built Kubernetes and Helm manifests used for deployments to Google Kubernetes Engine.
- Supported the internal engineering and sales teams by migrating 7+ on-premise applications to the cloud.

Software Engineer

Orano USA

Oct 2011 – Dec 2014 | May 2017 – Jan 2019

- Developed PLC code utilizing Siemens STEP 7, Ladder Logic, Grafscets, Function Blocks, and Structured Text Language.
- Designed and implemented software solutions for nuclear fuel manufacturing material handling, part tracking, and data storage and retrieval.
- Led PLC software tests on Siemens PLC (SIMATIC S7-400) test platform using Siemens STEP 7 and WinCC Open Architecture, and delivered four complete software programs for commissioning.

Mechanical Engineer

Orano USA

Jan 2015 – Apr 2017

- Performed structural analysis on support structures for automation systems' hardware using ANSYS Mechanical APDL and ANSYS Workbench to verify and establish structural qualification.
- Executed over 60+ evaluations of support frames, anchors, and welds to ensure structural integrity using ANSI/AISC N690-94 standard and AWS D1.6:1999 code.
- Transmitted accelerations, reactions, and deflections to interfacing construction and mechanical organizations to support 18+ field changes and design improvements.

PROJECTS

somethingSpecial (ReactJS, ReduxJS, Ruby-on-Rails)

[live](#) | [github](#)

E-commerce web app for desktop, tablet, and mobile users

- Built an e-commerce application implementing product categories, searches, reviews, and wish list functionalities by leveraging RESTful APIs and standardized CRUD patterns.
- Devised the product search bar by combining search queries capabilities with an autocomplete feature—based on a pre-fetched list of product titles—resulting in richer UI/UX.

LightChat (GraphQL, Docker, MongoDB, ExpressJS, ReactJS, NodeJS)

[live](#) | [github](#)

Live chat app with channel posting and direct messaging features

- Engineered the real-time messaging functionality entirely with GraphQL / Apollo mutations and subscriptions.
- Simplified the server configuration by joining two separate HTTP and WebSocket servers into a single server and setting up a listener on one port for all requests, thus allowing deployment of the Docker-based app to Heroku.

CoolBnb (MongoDB, ExpressJS, ReactJS, ReduxJS, NodeJS)

[live](#) | [github](#)

Travel site with Google Maps location search and lodging booking functionalities

- Implemented the back-end logic allowing users to filter available lodging options based on map location, dates, occupancy, and price, by utilizing Mongoose models and executing queries.
- Redesigned the marker manager to track the markers located within the map boundaries, provided by Google Maps JavaScript API, and seamlessly display the markers as the map is moved.

EDUCATION

University of California, Los Angeles (UCLA) - B.S. Mechanical Engineering, 2011