

# VALERY NGUYEN

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[PORTFOLIO](#)

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## SKILLS

JavaScript, React.js, Redux.js, Angular, GraphQL, HTML5, CSS3, Java, Spring Boot, Hibernate, Ruby, Rails, Express.js, Node.js, MongoDB, PostgreSQL, MySQL, Microsoft SQL Server, Docker, Kubernetes, Helm, Terraform, GCP, Git

## EXPERIENCE

### Software Engineer

Google

May 2021 – Present

### Software Engineer

AlertEnterprise

Sep 2019 – May 2021

- Collaborated on a team of 6 to architect the infrastructure solutions for new cloud-based product services running on GCP.
- Containerized microservices using Docker and created Kubernetes and Helm manifests used for deployments to GKE.
- Upgraded the Bitbucket Pipelines to automate Docker image builds and Helm deployments to Development and QA environments hosted on Google Cloud.
- Debugged and implemented fixes to back-end (Java, Spring Boot) and front-end (Angular) code.
- Obtained Google Cloud's Associate Cloud Engineer certification.

### Software Engineer

Orano USA

Oct 2011 – Dec 2014 | May 2017 – Jan 2019

- Developed PLC code utilizing Siemens STEP 7, Ladder Logic, Grafsets, 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.

## EDUCATION

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