VALERY NGUYEN

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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 – Jan 2019

- Developed PLC code utilizing Siemens STEP 7, Ladder Logic, Grafcets, 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*