

Nathanael Garza

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EDUCATION

San Jose State University

Bachelor of Science in Software Engineering

San Jose, CA

Graduated: Dec. 2021

EXPERIENCE

Lead Software Engineer

April 2023 – Present

Genpact

Remote

- Led engineering team of 9 to architect and implement a Kafka service enabling data integration across internal applications using Java Spring Boot, AWS, and Confluent Cloud
- Developed a React UI with TypeScript, Tanstack Query, and OKTA authentication, enabling self-service topic management and producer/consumer configuration
- Spearheaded development of a full-stack React/Spring Boot application that modernizes the management of car dealership configurations which was demonstrated at NADA Show 2024
- Successfully led all aspects of project management including sprint/feature planning, multiple contract deliverables, stakeholder communication, and cross-team collaboration for multiple projects
- Reduced data-integration times by several months by creating a comprehensive application onboarding strategy now adopted company-wide at CDK Global

Associate Software Engineer

March 2022 – April 2023

CDK Global

Remote

- Modernized legacy ETL workflows using AWS services (Glue, Step Functions, S3), reducing automotive dealership onboarding from months to weeks and cutting costs by \$2M annually
- Enabled non-technical experts to manage dealership databases without engineering support by developing a no-code React UI for creating JSON schemas using JavaScript
- Transformed PICK data into CSV/JSON formats by creating AWS Glue Python scripts
- Automated the updating and testing of our AWS Glue scripts using GitHub Actions and Pytest
- Created Spring Boot BFF microservice for managing AWS ETL workflows using Java AWS SDK
- Identified and remediated SQL injection vulnerabilities in legacy PHP and Perl applications

Software Engineer Intern

Jun 2020 – Aug 2021

CDK Global

Remote

- Improved Kubernetes cluster management by centralizing all AWS EKS container metadata within a NodeJS microservice using TypeScript, PostgreSQL and Swagger
- Retrofitted a CLI tool that built CICD pipelines for new projects to work as a NodeJS REST API
- Reduced repo creation times from hours to seconds by altering code repository settings programmatically via Stash & Bitbucket APIs
- Created data pipeline that aggregated Bamboo, Jira, and Stash metrics into AWS RDS PostgreSQL for showing modernization insights within Tableau dashboards

AWARDS & ACHIEVEMENTS

8-Time Hackathon Winner

2021 – 2023

Regional Competitions in Northern California

Multiple Categories

- Notable wins include: **Best Health Hack**, **Best Hardware Hack** (CruzHacks 2023, 2022), **Most Technically Challenging Hack** (DavisHacks 2022), **1st Place Overall & Best Use of Azure** (SCEHacks 2021)

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, C/C++, Python, Java

Databases: MySQL, PostgreSQL, DynamoDB, S3, MongoDB

Technologies: Git, GitHub Actions, Harness, Unix, SQL, NoSQL, Figma, Jira

Frontend: NextJS, ReactJS, Astro, Tailwind, HTML, CSS, Leaflet, Single-SPA, OKTA, Cypress, Jest

Backend: ExpressJS, Flask, Spring Boot, NextJS, NestJS, Wordpress, Shopify, Artifactory

Cloud: AWS (S3, DynamoDB, EKS, ECS, Glue, Step Functions, EC2, CloudWatch, SDK, IoT Core MQTT), GCP, Azure, Docker, Kubernetes, CI/CD