ZACHARY CHAMPION

(720) 384-7569   zchampion.dev   Lakewood, CO

Technical Skills

Languages

JavaScript (ES6)
React, Node.js
Python 3
Java
Regex
HTML, CSS
C++

Data Engineering

MySQL, SQL
NoSQL (DynamoDB)
Pandas
MatPlotLib

Testing

Puppeteer
Selenium
PyTest
Postman
Jest

AWS Services

CloudWatch
Kinesis, MSK
API Gateway
CodeCommit, CodePipeline,
CodeBuild
IAM
S3, EC2, RDS

Other

Tkinter
PyGUI
Git, GitHub, GitLab
Docker
Kubernetes, Helm

Work Experience

Medtronic

React and Python/AWS Full Stack Developer   **January 2023 – April 2024**

- Created React file frameworks from scratch for multiple single-page applications
- Created reverse-proxy node.js server for handling external API requests for consent registration project
- Created general page layout using Google MUI Grid and Stack components to give a consistent and brand-appropriate frame and navigation to internal app pages
- Created custom 4-part reusable React component using Google MUI components to display EC2 instance metadata and actionable controls in a table format with JSON-controlled configurable attributes
- Created encapsulated React component to dynamically label and disable button group to control EC2 instances
- Created dynamically populated, validated, and controlled single-component form for creating and editing user/data access control entities
- Styled (CSS, MUI) and crafted custom component library for proper Medtronic branding
- Maintained a client-side SDK handling data queries and entity management
- Integrations between the React client and backend API to ensure seamless operation and graceful failures
- Wrote unit and integration tests for the client

Comcast

Engineer 2, Software Dev & Engineering   **October 2019 – December 2022**
- Developed and maintained a self-service data stream management API for AWS Kinesis & Kafka (AWS MSK)
- Created new AWS API Gateway endpoints in Python to use AWS IAM roles to grant & revoke access to AWS Kinesis & MSK streams while enforcing AWS Parameter Store defined per-user maximums
- Edited CloudFormation YAML file so that all CloudWatch Logs created for development environments expired in 30 days
- Provided internal user support for the platform
- Wrote and maintained documentation in Confluence in anticipation of and in response to user difficulties

SpotX   Broomfield, CO

Software Development Intern   **May 2018 – May 2019**
- Designed user interface (Javascript, React) and backend (Python) for subscription editing page within a web app used throughout 600+ person company
- Created Docker images of backend API for local testing and release preparation
- Used Helm charts to control Kubernetes management for release management
- Created SQL queries as part of Python API endpoint code
- Implemented new RESTful API endpoints in Flask AppBuilder application for verifying syntax & inputs of Excel-style formulas to be applied to Pandas dataframes

Education

Metropolitan State University of Denver, Denver, CO

Bachelor of Science, Computer Science, Graduation 2019

Special Projects

NWS Siren   Maintained September 2022 - Present

Serverless project with AWS which fetches the current weather and forecast from National Weather Service's API and texts a user if certain weather conditions match.

Chat Activity Log   Maintained May 2015 – March 2022

Python 3 terminal script. Fetch records from AI test chat site with selenium webdriver. Save content in human-readable and script-usable format, compile statistics, and automatically create invoices.

Volunteer Work

Software Freedom School   Littleton, CO   Feb 2018 – Feb 2019

Member of Board of Directors
- Assisted with making and evaluating business goals and metrics
- Worked with other board members in promoting the SFS and coordinating events