Bernardo Arevalo

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Education & Certifications

University of California, San Diego

Bachelor of Science, Bioengineering: Bioinformatics

Aug 2011 - Feb 2015

AWS Certified Developer Certification

Proficiency in writing applications with AWS service APIs, AWS CLI, and SDKs; using containers; and deploying with a CI/CD pipeline.

May 2023

Work Experience

HealthJoy

Jun 2023 - Present

Fullstack Software Engineer

- Designed report ingestion service using AWS SFTP Transfer Family, S3, SNS, SQS, Terraform, Gitlab, kubernetes, and Python to support 1000's of reports from vendors like Teladoc and EAP
- Supported developing backend api endpoints written in FastAPI framework in Python
- Implemented SSO SAML 2.0 Integration with vendor companies

VillageMD

Oct 2019 - Apr 2023

Fullstack Software Engineer

- Designed backend APIs via FastAPI & Django framework hosted on AWS Lambda via Python
- Helped bring better practices as tech lead for projects, defining sprint cycle lengths, building out processes for release cycle, and implementing quality engineering tests for builds
- Developed and designed prototype authentication service for minting JWTs for backend services.
- Designed and implemented integration between Withings and VillageMD utilizing ReactJS and FastAPI to build a remote patient monitoring solution for care managers to order weight scales, blood cuffs, and monitor patients readings.
- Built monitoring solutions via artifact libraries stored in CodeArtifact to build reusable monitors and alerts for tracking in Datadog for all existing backend services

Livongo Health

Feb 2015 - Oct 2019

Backend Software Engineer • Quality Engineer

- Implemented and maintained Scala Play Framework RESTful APIs
- Wrote event driven RabbitMQ and cron JSVC services to accompany backend APIs
- Developed and maintained integration and end-to-end tests as part of quality engineering
- Lead partner integrations as tech lead with external parties like Validic, Fitbit, Surescripts
- Designed and implemented ETLs to ingest medical fulfillment data from Surescripts via event driven services to populate MySQL and Redshift databases
- Implemented multi-factor authorization for backend APIs utilizing Twilio APIs
- Designed and implemented rate limiting for backend APIs using a Redis store

Latest Personal Projects

Tinnitus Fundraising Platform

Developed POC for British Tinnitus Association to bring fundraising in house rather than use 3rd parties. Utilized AWS Amplify and Lambdas to host services. Developed front end via ReactJS and python backend APIs.

MySQL Repo
Apis Repo
React Repo

Health Machine Learning Platform

Developed platform to develop, store, and train models with healthcare related datasets for inference with FastAPI & PyTorch. Deployed to scale on AWS resources such as S3, EC2 ASG, AWS Batch, MySQL RDS, and Docker images to ECR. Implemented CICD pipelines with Github Actions & AWS Code Deploy. More details here.

Backend +
CICD Repo