Thanh Mac

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EXPERIENCE

Invitae— *Software Engineer*

08-2021 - Present

- Rebuilt reporting tools to automate reports using modern technologies like (aws, redis, netflix's conductor, kafka and etc) and decreased turnaround time for patients by over 80%.
- Built UI and features using (react-typescript) that saved lab-technicians- 20 hours each week on sample processing allowing for a 50% sample volume processing increase.
- Reduced roughly 80% of pagerduty alerts by integrating a notification system to automate production support which saved up to 10 hours each week for on-call developers
- Led a program "phenotype-service" to decommission an outdated phenotyping calling service and allow for scalability for the product.
- Provided enhancement features and supports to existing monolith and microservices.
- Created an end to end testing protocol for full coverage testing during deployments to minimize bugs on production using Jira and Confluence.
- Utilize technologies like new-relic and AWS cloudwatch to monitor services and troubleshoot problems across various environments.

Invitae — *Sample Accessioner*

10-2020 - 08-2021

- Accession (data entry) patient samples into the system following CAP and CLIA regulations and maintaining strict standards of quality and assisting with QC and QA activities.
- Collaborate with cross-functional teams to resolve any missing information cases, data discrepancies and any other issues related during sample processing using platforms including JIRA, Salesforce.
- Adhere and keep SOPs (Standard Operating Procedures) up to date and maintain communication and documentation in accordance with department procedures and policies.

Lab-Corp — *Sample Accessioner*

07-2020 - 10-2020

- Accession (data entry) patient samples into the system following CAP and CLIA regulations and maintaining strict standards of quality and assisting with QC and QA activities.
- Adhere and keep SOPs (Standard Operating Procedures) up to date and maintain communication and documentation in accordance with department procedures and policies.

Personal Portfolio
- Utilize a react-developer tool to display personal details about my career and tailwind css to add modern styling.
- Stored required image onto AWS s3 to be served on client during page load.
- Utilize AWS Amplify to deploy react-app and redeploy when code changes as needed.

League of Legends Statistics
- Utilize javascript front-end to implement the UI to show champions statistical information regarding classes using the league of legend openapi.
- Maintained images and requests to AWS s3 using backend django service using boto3 to request images to be served to the frontend.

EDUCATION

Coding Dojo, Bellevue, WA— *Python Full -Stack Development*

01-2021 - 06-2021

- Created an automated sudoku solver using javascript.
- Designed and implemented a UI and Backend to present video game (League of Legends) statistics using React and Django.

University of Washington Bothell, Bothell, WA — B.S *Biochemistry*

09-2016 - 06-2020

SKILLS

Languages: Python, Javascript

Framework: Django, Flask, Typescript, ReactJS.

Tools: Git, AWS (CDN CloudFront, S3, RDS, Redis, CloudWatch), Docker, PagerDuty, Sentry, Kafka, Tableau, SnowFlake, NewRelic.

Databases: SQL(PostgresQL, MySQL), NoSQL, AWS RDS.

LANGUAGES

English, Vietnamese and Cantonese.