

# Thanh Mac

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## EXPERIENCE

### Invitae— *Software Engineer*

07-2021 - 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 pager duty 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- Led a program "phenotype-service" to decommission an outdated phenotyping calling service and allow for scalability for the product.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 — *Production Support Engineer*

01-2021 - 07-2021

- Collaborated with stakeholders and engineers to resolve any arising bugs or failures found in software on production.
- Utilize tools like cloudwatch, new relic, splunk and SQL Server database to monitor and troubleshoot any software problems across various environments.
- Worked with engineers and product managers to implement deployment/testing plans for new rolled out features or a launch of new softwares.
- Participated in implementation/designs of requested features from stakeholders and further improved users quality of life during specimen processing.
- Implemented a deployment plan and software run-book for new/current engineers using jira and confluence.

### Lab-Corp — *Sample Accessioner*

07-2020 - 09-2020

- Communicated with each department in regards to sample status during accessioning and any special requirements needed for sample handling .
- Adhere and keep SOPs (Standard Operating Procedures) up to date and maintain communication and documentation in accordance with department procedures and policies.

## PROJECTS

### Personal Portfolio | <http://heybro200.dev.s3-website-us-west-2.amazonaws.com/>

- Utilize a react-developer tool to display personal details about my career and tailwind css to add modern styling.
- Deployed using AWS S3 using npm and AWS CLI to be made available to the public users.
- Utilize openapi like weather api to build and display weather based on requested location using "axios" gateway and aws lambda.
- Implemented a calculator app using react redux to do basic math operations.

## 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.