**MOHAMMED AMIN**  
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**SUMMARY**

A passionate and results-driven software engineer with extensive experience in the IT field including software development and cloud computing. Proficient in developing robust frontend and backend applications, while driving initiatives for large scale improvements.

**CORE COMPETENCIES**

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| --- | --- | --- |
| **Programming Languages** | **Cloud Technologies** | **CI/CD** |
| Javascript/Typescript, Python, Java, SQL | Amazon Web Services: EC2, ECS, EKS, Lambda, Fargate, Route53 | Jenkins, Bitbucket Pipelines, CircleCI, ArgoCD, Github Actions |
|  |  |  |
| **Containerization/ IaC Tools** | **Development** | **Database** |
| Docker, Kubernetes, Terraform, Ansible, Helm, Grafana, Prometheus | Node/Express JS, React, Redux, Angular, NextJs, Flask, Django, | MySQL, PostgreSQL, Cassandra, S3, DynamoDB |

**EXPERIENCE**

**American Express**, New York, New York

***Software Engineer****, October 2024 - Present*

* Maintaining a proprietary front-end abstraction layer on top of React to enhance the flagship banking website's UI.
* Uplifting banking dashboard UI into new stages of maturity with React and SCSS via multi team collaboration.
* Spearheading initiative to achieve 100% code coverage across all American Express banking dashboard modules.
* Assisting and guiding other engineers through mentorship and pair-programming sessions.

**Merkle**, Remote

***DevOps Engineer****, May 2022 – October 2024*

* Migrated Kubernetes clusters to AWS EKS using Terraform to improve modularity and reproducibility, reducing complexity.
* Leveraged Terraform-based IaC solutions for AWS based cloud computing, reducing lead time for changes by ~15%.
* Containerized microservices using Docker images, enabling isolated development and independent scaling of services.
* Reduced costs by 5% by converting NAT Gateway networking for private subnets in lieu of VPC endpoints.
* Installed Datadog agents on 100% of EC2 instances and created dashboards and alerts for real-time performance metrics.
* Automated security audits by integrated Checkmarx scans into CI/CD to mitigate risks across all applications.

**Merkle,** Remote

***Web Engineer****, April 2021 – May 2022*

* Programmed multiple single page applications for marketing dashboards, following white label model for reproducibility across hundreds of Fortune 500 companies – with React, Node Js
* Designed and programmed REST APIs for microservice applications using Spring Boot.
* Integrated REST APIs with AWS SQS to establish real-time messaging system, enhancing communication efficiency and scalability across distributed components.
* Developed React module system, allowing for scaffolding of child modules and reducing development time by ~20%.
* Revamped frontend E2E testing suite, integrating Cypress library for 100% coverage on all modules.

**Cyient INC**, Hartford, CT

***Engineer I****,**April 2019 – April 2021*

* Advanced the development of the flagship damage reporting platform using React, Redux, Express.js and SQL.
* Spearheaded large-scale data migrations and ETL processes, optimizing data management and storage solutions.
* Responsible for writing SQL queries to extract and communicate data pertaining to damages and repairs.

**EDUCATION**

**Bachelor of Mechanical Engineering / Minor in Computer Science,** 2019

*City College of New York – Manhattan, NY, Cum Laude Honors*