Omar Mirza

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SKILLS

- **Programming and Query Languages:** Python, SQL, GraphQL, Bash, Java, JavaScript
- **Infrastructure and Deployment Tools:** AWS, Docker, Kubernetes, Helm, Terraform, Tilt, Kind, CircleCI, GitHub Actions
- **Misc:** Git, Linux, PostgreSQL, Keycloak, Grafana, Loki, Prometheus, JIRA, Confluence

EXPERIENCE

SONY AI, Remote   **April 2023 – Present**
Software Engineer (Platform)

- Part of a compact team working on the backend of a distributed MLOps platform used by hundreds of research scientists across multiple global teams. Extensive use of Python, Terraform, Helm, and Kubernetes.
- Recognized as the code owner for a critical client library, responsible for interaction between experiment code and platform infrastructure.
- As a member of a three-man backend team, I designed and implemented critical components. For example:
  - Python microservice to build local s3 index to efficiently query petabytes of experiment artifacts using AWS SQS.
  - Flask proxy deployed as a sidecar to Hasura engine. Facilitates outdated client communication by translating old GraphQL queries to match new schema.
  - Admin cli/db tooling to allow team leads to start/stop experiments belonging to associated researchers.
- Collaborating with a cross-functional team of engineers in the planning, presentation, and implementation of a substantial backend redesign, seamlessly integrating a new source of GPU compute within a strict deadline. Engaged closely with DevOps and backend engineers throughout the project.

HORIZON MEDIA, Remote   **Jan 2022 – April 2023**
Software Developer

- Worked with data scientists to build Django REST API utilizing polynomial regression to provide clients with accurate budget recommendations. (Deployed using Zappa, AWS ECS, and AWS Lambda)
- Maintained and developed internal python libraries to streamline API calls to various advertising platforms.
- Developed tools used to alert advertisers of improperly served ads. (wrong location, suspended campaigns)
- Pioneered GitHub Actions usage to bring automated testing, linting, and deployment to our team's products.
- Normalized database and rewrote queries using Django ORM to make prototype code production-ready.

ESTEE LAUDER COMPANIES, Remote   **Jun 2021 – Jan 2022**
QA Test Automation Engineer

- Manual and automated test execution and development of B2B site using taiko, lambdatest in an agile team of 5.

INFOSYS, Remote   **Feb 2021 – Jan 2022**
Associate Developer

- Certified Infosys Java Developer, Certified in Java, Angular and Spring frameworks.

MILLER & COMPANY LLP, Queens, NY   **Jul 2020 – Jan 2021**
Information Technology Engineer

- Developed Python scripts used for backup data management and data entry automation.
- Created automated invoice building tool using Python and jinja.

EDUCATION

B.A. Computer Science, **Queens College,** Queens, NY   **2020**