Shivangi Singh

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EDUCATION

University of Massachusetts Amherst   **Amherst, MA**   **GPA: 3.75**
Bachelor of Science in Computer Science

SKILLS

Languages: Python, Java, Golang
Databases/Others: Kafka, Kubernetes, Kafka, Spark, AWS (S3, EC2, EMR), OCI, Docker, Airflow, Kubernetes, Kafka, SQL, Terraform, Ansible.

PROFESSIONAL EXPERIENCE:

Senior Software Engineer   **Oracle New York, NY**   **Sep 2019- Present**
Technologies: Go, Python, Databases, AWS (ECS, S3, EC2), Linux, Kafka, Docker, Grafana, Prometheus, Terraform
- **Lead and implemented a cross-functional project** to replace the old system, **reducing query time by 80%**.
- Containerized system component and hosted it on K8 with auto scaling **reducing on-call alerts by 100%, reducing cost by 30%.**
- **Collaborated** with a team **of 4 to migrate 3 systems from AWS to OCI saving ($550k/month)**
- **Implemented monitoring** metrics using Grafana and Prometheus in the system to reduce debug time and increase insights into the system.
- Implemented **terraform/ansible tooling** to quickly spin up end-to-end infrastructure, deployment for system, perform comparisons between stacks, handle replays effortlessly.
- **Implemented new metrics, resolved duplication issues in Kafka pipeline**, **improving usability by 8%.**
- Build an End-to-End pipeline with Airflow to fetch data for PMs, **reducing effort by 3 hours**.
- Built reports for discrepancy analysis to be used by leaders to make decisions on work between new stack and old.
- Contributed to Design decisions of migrating, handling releases of new systems.
- **Mentored** new engineers on the team. Guiding, and designing their tasks.

Founder   **Intern Experience**   **May 2020- Dec 2021**
- **Planned** an initiative to provide internship experience to college students in India.
- **Successfully executed** the initiative for two years to train college students in tech.
- **Managed two teams of 4** over the course to successfully deliver two web-applications products.
    - A Hospital Management System
    - A Speech Improvement Application
- **Successfully trained, empowered cohorts** over three months.
- **Lead design sessions** to teach technologies and plan out the applications.
- Managed progress, feature, interpersonal developments and pivots as necessary.

Software Engineer   **American Express New York, NY**   **Feb 2019- Sep 2019**
Technologies: Java, React.js, Node.js, XML, JavaScript, jQuery.
- **Lead/mentored a team of 6 interns** over the summer to help deliver their summer project.
- Acting Scrum Master, responsible for organizing team meetings, clearing blockers, coordinating with the product owners about deliverables.
- Coordinated offshore calls, cleared blockers, and plans in an agile environment.
- Implemented the frontend for Amex's first small business application in Singapore
- Made sure that the applications were accessible to screen readers and compatible with multi devices.
- **Improved performance of old applications by 12%** by uplifting the application to ReactJS.
- Coordinated with the product team to drive the project on requirements and delivery.
- **Increased applicant retention by 60%** by integrating My Info prefill services.

PROJECTS:

DeviceHealth
Technologies: HTML, CSS, JavaScript, Node.js, MongoDB
- **Collaborated with a team of six to develop a web application** to assist people manage their machines.
- **Led backend initiatives** in analyzing the data, pre-processing proposing a solution for data storage
- **Implemented** the backend for the application/ POST/PUT/GET to handle incoming real time calls to the API
- Followed the Waterfall Lifecycle model to lay out the process plan, from outlining use cases to creating UML diagrams.