Harshavardhan Reddy B

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SUMMARY

Highly motivated graduate student with **six years of professional experience** in Software Development leading and delivering complex projects implementing robust features, optimizing performance and scalability with a strong skill set in Java, web technologies and cloud infrastructure.

EDUCATION

- **University at Buffalo, The State University of New York** — Buffalo, New York
  Master of Science in Computer Science & Engineering; CGPA: 4/4 — *Aug 2022 - Dec 2023*
  - Coursework: Distributed Systems, Database Systems, Data Intensive Computing, Blockchain, Machine Learning, Data Structures & Algorithms, Computer Architecture.
- **National Institute of Technology, Calicut** — Calicut, India
  Bachelors in Electronics and Communication Engineering; CGPA: 7.72/10 — *Jun 2012 - May 2016*

EXPERIENCE

- **Oracle (OCI Data Science)** — Bangalore,India
  Senior Member of Technical Staff — *Apr 2022 - Aug 2022*
  - Built workflows as a team of 5 to load/unload multiple models with custom ocpus and memory on customer trained models.
  - Brainstormed on Integration of Triton server docker image to reduce latency serving multi model inference requests.
  - **Skills**: Java11, Python, Data science, SpringBoot, Grafana, Docker, Triton, Gradle, REST API.
- **JioSaavn** — Bangalore,India
  Senior Software Engineer — *Nov 2019 - Apr 2022*
  - Led teams on Digital Rights Management, short videos, audio video content management pipelines.
  - Built ground-up products content migration service and archiving pipeline to save costs by 80%.
  - Designed and implemented e2e video pipeline to launch video feature on JioSaavn leading to increased DAU.
  - **Skills**: Java, Golang, ReactJS, SpringBoot, MySql, MongoDB, AWS, Azure, SFTP, Ansible, Kubernetes, Docker, NGINX.
- **Goodera** — Bangalore,India
  Senior Product Engineer — *Aug 2018 - Oct 2019*
  - Designed ground-up products spanning centralized authentication, workflow automation and dockerized micro-services for multiple products resulting in 10x faster development.
  - Introduced caching in Grants Management Systems(GMS) resulting in 90% reduced latency.
  - Integrated Partners & GMS products to enrich user experience for cross functional features, resulting in increased opportunities for NGOs by 3x.
  - **Skills**: Node.js, Javascript, AngularJS, ReactJS, MySql, MongoDB, AWS, Elasticsearch, Redis, OAuth, Docker, Jenkins.
- **Netcracker** — Bangalore,India
  Software Engineer — *Jun 2016 - Jul 2018*
  - Introduced new modules TOE, OM for TOMS product as a part of a 40+ member team, and gained indepth understanding of telecom operations and management solutions.
  - **Skills**: Java8, C++, Javascript, GWT, HTML, CSS, SpringBoot, MySql, Maven, NGINX, SVN, Jenkins.

PROJECTS

- **Taco DB**: A mini RDBMS in c++, including Buffer Management, Data Layout using Varlen Datapages, Access methods, B-Tree index, query planning, optimization and processing with support for join & aggregation.
- **Distributed Systems**: Implemented Map/Reduce library, Chandy Lamport algorithm for snapshots and RAFT consensus algorithms for replicated state machine & leader election.
- **Weather Change Prediction**: Trained dataset with Adaboost, Random Forest, Neural Networks models to predict weather changes and Multi Output Regression models are also developed to predict other disasters.
- **New York Cannabis Exchange(Startup)**: An auction marketplace analogous to eBay Auction Services for Licenced Cultivators and Dispensaries in New York state to buy and sell thier products online. Won first place among 40+ teams for best Spring 2023 Capstone project at University at Buffalo.

PROGRAMMING SKILLS

- **Languages and Frameworks**: Java 17, Node.js, Golang, C++, Python, Spring Boot, JavaScript, ReactJS, AngularJS, HTML, CSS, PHP, Hadoop, Spark.
- **Databases**: MySQL, MongoDB, Redis, PostgreSQL, Solr, DynamoDB, Elasticsearch.
- **Devops & Others**: AWS, Azure, Kubernetes, Docker, Ansible, SQS, Git, Maven, Jenkins, Kafka, REST APIs, gRPC.