AASHISH NEHETE

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EDUCATION

University of Massachusetts Amherst   **Sep 2022 – May 2024**
MS Computer Science   GPA: 4.0/4.0
Coursework: Adv. Computer Networks, Distributed and Operating Systems, Machine Learning

University of Mumbai   **Jul 2015 – May 2019**
BE Information Technology   GPA: 8.23/10.0
Coursework: Data Structures and Algorithms, DB Management Systems, Cloud Computing, Big Data Analytics

EXPERIENCE

Spirent Communications — UX Intern   *Remote* | **June 2023 –**
- Developing a user interface in React and Node.js to operate a Debian-based embedded controller.

UMass Amherst Center for Data Science — Data Science Intern   *Amherst, MA* | **May 2023 –**
- Analyzing time series data from Unity, a High Performance Computing cluster at UMass Amherst using Python, SQL and Tableau.

One2n — Site Reliability Engineer   *Pune, India* | **Sep 2021 – Jul 2022**
- Designed and maintained cloud infrastructures on AWS services like **EC2, ECS and EKS**.
- Introduced CI/CD using **Jenkins** and **Terraform** to automate the build, test, and deployment process, improving developer productivity and reducing the risk of errors in software releases.
- Integrated **Grafana** and **Prometheus** to improve observability into infrastructure, **reducing the MTTR by 50%**.
- Designed tutorials for new team members and provided mentorship to help them understand the processes.

WorkIndia — Infrastructure Engineer   *Bengaluru, India* | **Jun 2020 – Sep 2021**
- Migrated infrastructure from **AWS EC2 to Kubernetes**, introducing scalable, efficient and streamlined operations.
- Led stability and security efforts of the new infrastructure, resulting in faster time to market for new services.
- Engineered an isolated staging environment in Kubernetes that increased developer productivity.
- **Reduced AWS costs by 67%** through cost-saving strategies like optimal resource allocation and auto-scaling cluster.

WorkIndia — Full Stack Developer   *Bengaluru, India* | **Jun 2019 – Jun 2020**
- Augmented payments with automatic renewals using **Django** and **PostgreSQL** leading to **10% revenue increase**.
- Developed a user-friendly job portal in **ReactJS**, enabling candidates to apply for jobs using diverse search filters.

Barclays — Intern Analyst (Barclaycard)   *Pune, India* | **Jun 2018 – Jul 2018**
- Developed intuitive interfaces using **C#** and **.NET** for managing customer interactions which received positive feedback from the business stakeholders.

PROJECTS

User Interaction Events Data Pipeline | *Kafka, Spark, Cassandra, Presto*   **Nov 2022**
- Implemented Big Data ETL pipeline to process user interaction events on Netflix.
- Used **Apache Kafka** for streaming data ingestion, **Spark** for data processing and transformation, **Cassandra** for storing results and **Presto** for query processing.
- Investigated performance of the system by varying number of cores and volume of input data.

HealthSet - Personal Health Monitoring Device | *Java, Android, Firebase*   **Jan 2018 – Aug 2018**
- Developed an **Android** app that displayed real-time ECG of a patient from IoT device.
- Integrated remote sync of patient data using **Firebase**.
- **Second runner-up at Texas Instruments IICDC 2017**.

TECHNICAL SKILLS

Languages/Frameworks:	Python, Java, C, HTML, CSS, JavaScript, SQL, Go, C#, PHP, Django, ReactJS, NodeJS
DBs:	MySQL, PostgreSQL, MongoDB
Technologies:	Linux, AWS, Kubernetes, Tableau, Jenkins, Terraform, Ansible, Grafana, Prometheus

PUBLICATION

Real-Time Location Tracking System for Predetermined Routes | *Android, Kafka, AWS*
Grenze International Journal of Engineering and Technology, Vol. 7, Issue 2, July 2021