KASHYAP SONI

New York

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EDUCATION

Master of Science in Computer Science and Engineering   **August 2022 – Expected January 2024**

University at Buffalo, The State University of New York: **GPA: 3.5/4.0**   *Buffalo, NY*

Algorithms, Distributed Systems, Computer Security, Parallel Algorithms, Machine Learning, Data Models & Querying

Bachelor of Technology in Computer Engineering   **August 2018 – May 2022**

Sardar Vallabhbhai National Institute of Technology - Surat   *Gujarat, India*

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, GoLang, C, C++, Python, Rust, SQL, NoSQL.
Web Technologies: React, Redux, Node.js, Express.js, Angular, Spring Boot, MongoDB, Flask, HTML, C#, .NET, AJAX
Tools: AWS, Docker, Kubernetes, Jenkins, Git, Jira, PGAdmin, MySQL Workbench, shell, Bash, Grafana, K6
Concepts: Object oriented programming, Agile, SDLC, System design, API Gateways, RESTful API.

WORK EXPERIENCE

Software Engineer Intern   **May, 2023 – July, 2023**

E-Management Services   *Princeton, New Jersey*

- **Designed**, **developed**, **implemented** and **tested** an **end-to-end** secure and scalable **RESTful API** for **document signing** using **NodeJS**, **ExpressJS**, SQL Server, and **Docker**. Adhered to **SOLID** and **SDLC** principles.
- Optimized and enhanced computational efficiency of algorithms and software design. Utilized **test driven development** for clear **maintainable** code. Performed **unit testing** and **integration testing** covering **90%** code.
- Developed two new **end-to-end features** for enterprise system software with **JavaScript**, **Node.JS**, **C**, and **Python**. Deployed **HTTP** web server using **Python Flask** for back-end and created API **end-points** for **real-time updates**.
- Collaborated with **2 cross-functional** teams to gather requirements, implemented new features, and stress-tested using **Grafana K6** ensuring timely delivery and **high**-quality code and created API usage **documentation**.
- **Deployed** API on **AWS EC2** instance by creating and maintaining **Docker** containers for consistent **development** and **production environments**, ensuring a seamless transition from development to deployment.
- Applied software development practices and standards to develop robust and maintainable software. Streamlined **software release** process by implementation of **automated CI/CD pipelines**.

Software Engineer Intern   **May, 2021 – July, 2021**

Indian Institute of Management - Udaipur   *Rajasthan, India*

- Developed and maintained over 20 **responsive** websites using **JavaScript**, **HTML**, **CSS**, **NodeJS**, and **ReactJS**. Analyzed **user requirements**, designed and implemented necessary **functionalities** using JavaScript.
- Collaborated with 2 developers to improve **UI design** and **refactored** existing code, reducing code duplication by **modularizing** code and enhancing performance by **20%.** Reduced **search latency** by introducing **indexes**.
- **Resolved** software **design defects** and **performance bottlenecks** by analyzing **log files**, debugging code, and applying effective troubleshooting techniques, ensuring smooth operation of software applications.

PROJECTS

AdmitWise- Research project under Professor Jinjun Xiong, AI head of UB
- Researching on AI and NLP models for product used by college admissions committee. Built scalable platform for bach processing over 100k applications using Go. Created dataset to train, fine tune and test the model for extracting relevant text to different evaluation criteria and assigning scores on those criteria.

ScanJD - Job description analyzer
- Created a **Chrome extension** integrating with **LinkedIn Jobs**, facilitating job seekers by **scanning** job descriptions and displaying results directly **within page**. Employed **Express** for **backend**, **AWS RDS** for data storage, and **React** for **frontend**. Leveraged **ChatGPT** API for job description analysis and extracting **key metrics** like **skills**.

Raft leader election and log consensus
- Built a **fault tolerant key-value** storage system by implementing leader election feature of **Raft** for **replicated state machines**. Deployed **log consensus** feature of Raft to maintain **consistent** replicated log of operations.Used Extended Raft paper to **design system** and implemented it in **GoLang**.

Distributed Snapshots
- Implemented **Chandy-Lamport** algorithm for determining **global state** of a **distributed system** using **GoLang**. Captured **local snapshots** of individual processes and generated **global snapshot**. Any process can initiate snapshot process and ensured it doesn't interfere with normal execution of processes. Used **SyncMap** for **concurrent read-write** operations.