Sidharth Shyamsukha

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Education

New York University   May 2023
Master of Science, Computer Engineering   GPA: 3.6/4
Relevant Coursework: Internet Architecture & Protocols, Computer Systems Architecture, Machine Learning, Datacenter & Cloud Computing, Deep Learning, Applied ML in Finance, Data Structures & Algorithms, Big Data

Nirma University   May 2021
Bachelor of Technology, Information Technology

Technical Skills

Languages:	C, C++, Python, JavaScript, Java, PHP, Go
Cloud Services:	AWS, IAM, EC2, S3, Lambda, SNS, Google Cloud Platform(GCP), Kubernetes, Terraform
Web Technology:	React, Angular6, Node, JSP, ES6, webpack, HTML, CSS3, CSS, SCSS, Bootstrap,NextJS
Databases & Testing:	MySQL, MongoDB, Junit, Mocha, SQL, Hadoop, Spark, Extract, Transform, Load (ETL)
Tools & Libraries:	GitHub, GitLab, Postman, Jenkins (CI/CD), YAML, JSON, Bitbucket, Microsoft Office, WordPress, JIRA, Docker, REST APIs, Apache, Selenium, Celery, RabbitMQ, GraphQL, Pytest, PyTorch
Operating Systems:	Linux/UNIX, Windows

Experience

New York University Information Technology Services, New York, NY   Feb 2022 - May 2023
Software Engineer, High-Speed Research Network Vertically Integrated Project
- Integrated documentation API, slashing modification time by over 50% in the CI/CD process.
- Orchestrated seamless GitLab pipeline deployment for corelink clients, ensuring real-time updates.
- Led a 30-member team, employing agile methodologies to streamline project management & enhance the delivery.

Crest Data Systems, San Jose, CA   Jun 2022 - Aug 2022
Software Engineer, HR Management Systems
- Developed ReactJS-based document view & download features to streamline HR workflows and optimized storage by 60%.
- Implemented intelligent caching for faster team directory page loads, achieving a 30% efficiency gain.
- Resolved bugs to ensure data accuracy in employee data updates, providing clear and transparent information for HR.

NH Infosoft, Ahmedabad, India   Jan 2021 - June 2021
Software Engineer
- Designed and deployed an advertisement booking client application using React JS, JavaScript, Python, MongoDB, and Google Cloud Platform (GCP), resulting in a 44% increase in application reliability and capacity, and a 40% boost in online advertisement bookings, leading to a 25% revenue growth.
- Created a GCP Cloud Function for automated EMail and SMS-triggered event-driven actions.

Software Development Projects

Effective Implementation of Stealthy Syntactical Backdoor Attack on Language Models
- Created novel backdoor attack on Language Models, boosting ASR by 23% through T5 model integration with poison data.
- Implemented robust GPT-3 defense, slashing ASR by 50% in various model/dataset setups to counter the attack.

Blockchain based consensus protocol for fair transaction ordering
- Conducted comprehensive comparative analysis of 4 relevant schemes, effectively summarizing results from related publications.
- Proposed a novel approach demonstrating a remarkable 70% enhancement against fixed transactions for up to 50% of dishonest nodes. (Publication: Link)

Bit-torrent Client in Python
- Carried out in-depth analysis of a rudimentary Unofficial BitTorrent Specification, resulting in the development of a local network file transfer system achieving impressive speeds of up to 200 Mbps.

Latent Factor based Recommender System using Spark ALS
- Enhanced recommendation system accuracy by 20% through innovative implementation of latent factor models with ALS, surpassing the performance of single-machine alternatives like LightFM and Lenskit.