

Manas Acharya

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EDUCATION

Stony Brook University <i>Masters of Science, Computer Science</i> Relevant Courses: Distributed Systems, Operating Systems, Visualization & Visual Analytics	Stony Brook, NY CGPA 3.78/4.0 Aug. 2022 – May 2024
University of Mumbai <i>Bachelor of Engineering in Computer Engineering</i> Secured 3rd Rank among 159 students (2021 Batch Computer Engineering)	Mumbai, India CGPA 9.68/10.0 Aug. 2017 – Jun. 2021

EXPERIENCE

BrowserStack <i>Software Engineer – ELK, Kubernetes, Python, AWS, Ansible, Looker, BigQuery, EKS</i>	Aug. 2021 – Aug. 2022 Mumbai, India
<ul style="list-style-type: none">Designed framework for Cost Governance of all Data Platform Products resulting in the distribution of 98% of running costs previously borne by Data Team, backed by complete instrumentation for transparency in billing.Migrated an EC2-based component used to run health reports, crons, and services to Elastic Kubernetes Service leading to a 90% drop in on-call infra alerts with added scope for scalability and cost savings.Engineered setup of Elasticsearch clusters for real-time Desktop Terminal Log syncing across Desktop Terminal Data Centres enabling storage of 25TB logs per day with replication, supported by a centralized analytics system with Kibana leading to faster and easy debugging.	
Prosperoware <i>Software Developer Intern – AWS, NodeJS, MySQL</i>	Jul. 2020 – Jun. 2021 (Remote), PA, USA
<ul style="list-style-type: none">Built end-to-end cloud architecture to support transfers across various cloud document management systems resulting in cloud agnostic data transfer solution with file review workflow for security.Devised Serverless Framework-based REST API, triggered by an API Gateway resulting in cost-effective operations due to a pay-as-you-go model and no infrastructure maintenance at the developer's end.	
BhaktiVedanta Hospital and Research Center <i>Data Analyst and Visualization Engineer Intern - Tableau, Google Data Studio, MsSQL</i>	Dec. 2019 – Dec. 2019 Mumbai, India
<ul style="list-style-type: none">Led a team of 17 intern engineers to optimize analytics, to bolster faster error identification.Designed Tableau Dashboards for KPI tracking analysis with automated reporting framework resulting in better instrumentation for target tracking.	

PROJECTS

Distributed Storage System with RAFT <i>C++</i>	Sep. 2022 – Dec. 2022
<ul style="list-style-type: none">Built distributed storage system implementing RAFT, a replicated state machine protocol and consensus algorithm. Thereby, enabling strong consistency and fault tolerance on all operations across the system.	
Desktop Terminal Log Migration <i>Ansible, Elasticsearch, Kibana, Filebeat</i>	Jun. 2022 – Aug. 2022
<ul style="list-style-type: none">Took ownership of dev effort for analyzing desktop terminal logs, designing and implementing ELK-based logging system on Linux (CentOS) virtual machines to store 25TB logs daily across 3 Data Centers.	
Zombies EKS Migration <i>Ruby, Bash, Kubernetes (EKS), Google Pub/Sub, Jenkins</i>	Jan. 2022 – Mar. 2022
<ul style="list-style-type: none">Migrated EC2-based component running crons/services to EKS for better scalability and reduction in resource consumption on-call alerts.	

TECHNICAL SKILLS

Languages: Python, C++, JavaScript, Bash
Database and Analytics: BigQuery, MySQL, MSSQL, MongoDB, Tableau, Looker, Grafana
Cloud, Tools and Frameworks: AWS, Git, Ansible, Flask, Kubernetes, Jenkins, Elasticsearch, Kibana, Logstash, Linux, Agile, CI/CD, Serverless, Nagios, REST APIs

LEADERSHIP AND AWARDS

Vice President <i>CodeX, St Francis Institute of Technology</i>	Aug. 2019 – May 2020
Smart India Hackathon <i>2nd Runner up, Indian Space Research Organisation</i>	Aug. 2020