

Saumya Puru Bakshi

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Looking for a summer internship for 2023 (May-August)

EDUCATION

Georgia Institute of Technology, Atlanta

Master of Science in Computer Science

August 2022 - August 2024 (Expected)

Vellore Institute of Technology, Vellore

Bachelor of Technology in Computer Science and Engineering, **9.03/10.0**

July 2014 - June 2018

WORK EXPERIENCE

Software Engineer (Product)

Oct 2020 – July 2022

skit.ai (Previously Vernacular AI)- designs and creates voicebots to automate call centre activities

Bangalore, India

- Owned and created features for Outbound Campaign Manager which handles 4-5 million daily calls.
- Created an interactive analytics dashboard for seeing key product metrics using **d3.js, Django framework and Reactjs**.
- Designed and built IAM interface for Studio (voicebot-as-a-product platform) using **Reactjs, Google auth and Django framework** used by all internal teams and external customers based on role-based access control.
- Developed Data warehousing roadmap and implemented workflows to facilitate **near-real-time analytics using Argo workflows, Postgres and Metabase**, handling ~5 million transactions per second, increasing the efficiency of collecting metrics by 50%.
- Wrote standard product metrics to be auto-calculated by the pipeline using **python, pandas library and Go**.
- Developed CI/CD Roadmap using **bash, ArgoCD and Gitlab CI** and implemented the same for company-wide services decreasing build and deploy time by 80%.
- Configured **Prometheus and Grafana** for all core services to enable error detection in under 15 minutes and enhance monitoring via connecting with Slack and email.
- Created and managed Kubernetes cluster** on EKS AWS for staging to enable a safe testing environment

Software Engineer

July 2018 – Oct 2020

Schlumberger

Pune, India

- Worked on development of Rest-based and event-based microservices in **java and python in Flask and Springboot frameworks** for enriching incoming data and storing efficiently in the cloud: contributed to OSDU open source platform
- Configured and proposed scalability metrics using **Horizontal Pod Autoscaling in Google Kubernetes engine** to handle the incoming load (petabytes of data) with wait time < 2s
- Owned and configured **build and deployment pipelines for python and java microservices** to automate deployment and reduce manual efforts.
- Worked with **Google Kubernetes Engine and Google App Engine and managed CI/CD pipelines** for 15 microservices under my team on Azure DevOps

SKILLS

Languages: Python, Golang, Java, HTML, Javascript/Typescript, Bash

Databases: Postgres, MongoDB, Redis, GCP Datastore

Frameworks: Flask, Django, Reactjs, OpenAPI, Ant Design, Springboot, Metabase

Platforms: AWS, GCP, Argo Workflows, Kubernetes, Docker, Prometheus, Grafana, Gitlab CI/CD, ArgoCD

Certifications: Big Data Essentials: HDFS, MapReduce and Spark RDD by Yandex (Coursera), Using Python to access Web Data (University of Michigan), Data Management and Visualization (Wesleyan University)

RESEARCH PUBLICATIONS

- “Optimization of Parking Lot Area in Smart Cities Using Game Theory”** published in ‘*Advances in Intelligent Systems and Computing’ Soft Computing for Problem Solving, SocPros 2018, Volume 2* Link: https://link.springer.com/chapter/10.1007/978-981-15-0184-5_3
- “Cognitive Agents for Web Based Search Engines: A Review”** presented at the 2017 *Second International IEEE Conference on Recent Trends and Challenges in Computational Models* Date Added to IEEE Xplore - 5th October 2017 Link: <https://ieeexplore.ieee.org/document/8057535>

LEADERSHIP

- Conducted interviews for incoming Software developers in python at skit.ai
- Led onboarding sessions for new employees at skit.ai on Tech architecture of our voice-bot
- Mentored incoming graduate students at Schlumberger on coding practices

