

# SUDARSHAN KHASNIS

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## WORK EXPERIENCE

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### BDIPlus Inc

New York, US

**DevOps Engineer** | Python, Java, AWS Management, RESTful APIs, GitLab, Kubernetes

May 2023 – Present

- Spearheaded all SRE activities at BDIPlus, directing the deployment of new products – **ModenX** and **OneData.Plus**, while functioning as a developer for our primary client, **Afficiency** – NYC based leading insurtech company.
- Engineered a fraud control system in Python that autonomously suspends insurance agents involved in fraudulent activities, leading to **saving \$50,000 annually**.
- Strengthened internal databases – MySQL, Redis and Superset, by configuring parameters for concurrency. Refined user security (basic auth to OAuth2 for REST) and added disaster recovery using persistent storage in Kubernetes.
- Executed automated disaster management and prediction strategies to avert production bugs. Eliminated **system downtime to zero** from an average of **10 hrs per month**.
- Pioneered CI-CD setup in GitLab, aiding in **200+ deployments** within weeks - deploying an e2e insurance application system, through which more than 30,000 applications are processed every month.

### Graphics, Imaging & Light Measurement Laboratory

Florida, US

**Assistant Researcher** | Python, Deep Learning, TensorFlow, GANs

August 2022 – December 2022

- Researched under Dr. Corey Toler-Franklin to **model 3D motion and behavior from videos** through adversarial networks. Redesigned B-SoID, achieving better results than the state-of-the-art DeepLabCut by 5%.

### Samsung Semiconductors Research and Development

Bengaluru, India

**Senior Software Engineer** | Python, SQL, RESTful APIs, Machine Learning

January 2019 – August 2021

- Implemented Automated Log Analysis Tool (**ALT**) which auto-resolves JIRA issues overnight. Developed a desktop application in ASP.NET as an on-prem solution for ALT, **used by 500+ engineers today**.
- Re-structured ALT's MySQL database to support high-concurrency queries which **increased query sustenance by 300%**.
- Designed a robust feedback resolution system for ALT that catered to the developers' requirements. This led to improving ALT and **saving over 10 hours of manual work** per ticket, effectively optimizing developer productivity.
- Created performance tools and production progress reports for worldwide software releases - producing dashboards used by senior executives in India and Korea.

## SKILLS

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**Programming Languages:** Python, Java, JavaScript

**Database & Frameworks:** SQL, MySQL Enterprise, Redis Cloud, Mongo, Superset, Hadoop Namenode

**Tools & Platform:** AWS (VPC, EC2, EKS, S3, ACM, RDS), Hetzner Cloud, Wasabi Storage, JIRA, RESTful APIs, GitLab Management, Kubernetes, Tableau, Linux, Jenkins

## EDUCATION

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**University Of Florida, Herbert Wertheim College of Engineering**

Florida, US

Master of Science, Major in **Computer Science**

August 2021 – May 2023

**Manipal Institute of Technology**

Manipal, India

Bachelor of Technology, Major in **Information Technology & Data Analytics**

August 2015 – March 2019

## ACCOMPLISHMENTS

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- Received consecutive **highest rating (top 1%)** at **Samsung Semiconductors**
- Stood **2<sup>nd</sup>** at the **ICPC International Collegiate Programming Contest** 2017 (Kolkata region)
- Procured University of Florida, Academic Achievement Award 2021
- Performed as **Teaching Assistant** for Deep Learning for Computer Graphics, Fall 22