

Sid (Siddhartha) Gupta

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PROFESSIONAL EXPERIENCE

NemaLife

Jan 2020 - Present

Lead Software Engineer

- Managed 8 developers to date with focus on cloud solution(s) that enabled scalability & data stewardship
- Streamlined DevOps & led to successful deployment of end-to-end data labelling platform in the cloud
- Responsible for smooth operation of ETL pipeline(s) for client data, Web-API(s) & data labelling website
- Currently leading Cloud-MLOps project & IT-initiative of PowerBI adoption by data-scientists at NemaLife
- Negotiated with 6 vendors to generate software requirement specifications (SRS/SOW) without vendor-lock-in

Scientific Applications Developer, Full Stack

- Contributed to Python-based vision software used by industry & government clients for drug screening
- Regularly improved software version(s) via beta-testing, user-survey(s), bugfixes & UI/UX updates
- Achieved 10X drop in data processing time through multi-threading & task-parallelism workflows in Python
- Increased computer-vision performance by algorithmic updates & creation of ML models after data wrangling
- Generated significant codebase for automated lifespan, health & motion estimation from video recording(s)
- Created Python scripts for automated data processing/visualization & wrote database queries for data analysis of various data sources such as MySQL & PostgreSQL
- Volunteered to improve legacy IoT scripts written in C & followed CI/CD, git & data security policies

Texas Tech University

2015 - 2019

Research Programmer, Python

- Advanced PepsiCo's product-R&D with Digital Holography that has the potential to impact the elderly population
- Developed multiprocessing scripts for HPC for terabyte-scale image data analysis using Python & Bash

Mathematics & STEM Instructor

- Instructed MS & doctoral level students on Laplace/Fourier transforms & advanced Math topics
- Coached around 200 K-12 cohorts & received rave reviews from managers & participants

Reliance Industries | Member Engineering Staff

2012 - 2014

- Gained exposure to product & energy accounting in SAP at India's largest energy company

Tata Steel | Quality Analyst

Summer - 2011

- Conducted statistical analysis with numerical simulations & root cause analysis (RCA)

Ipca Laboratories | Data Intern

Summer - 2010

- Analyzed data logs in a pharma facility serving the US & African markets

TECH STACK

Algorithms | Databases | Agile Development | Cloud Foundations | DevOps | MLOps

- **Languages** : Python, Ajax, JS, Node JS, SQL, Bash, C#, Java, Ruby, Git Server
- **Technologies** : SSMS, T-SQL, MySQL, PostgreSQL, Azure (proficient), AWS (basic), Docker, FastAPI, Django, MS-Office, Visio, PowerBI, Lucid Charts

EDUCATION

Cloud Certification(s)	Azure Administrator Assoc., Cloud & Data Fundamentals
Univ. of West Georgia	MS Computer Science
Texas Tech Univ.	PhD Digital Holography
Indian Institute of Technology	B.Tech

VOLUNTEERING

- Volunteered to chair session for talks at PyCon-2022 in Salt Lake City, Utah
- Volunteer during 2020 as open-source developer for pyinstaller project