# SATHISH KUMAR MUTHARAM

## CONTACT

**sathish_kumar.mit@pm.me**
**Chennai, India 600096**
**+91 8807722710**

→ EXPERIENCED PYTHON DEVELOPER WITH A BACKGROUND IN IT, RETAIL, CATALOG, AND VENDOR MANAGEMENT. SKILLED IN PYTHON AND SQL, WITH A FOUNDATIONAL GRASP OF JAVASCRIPT AND MACHINE LEARNING. PROVEN ABILITY TO MANAGE CRITICAL PROJECTS WHILE STAYING CURRENT WITH INDUSTRY TRENDS AND TECHNOLOGIES. EAGER TO LEARN AND ADOPT NEW ADVANCEMENTS.

## SKILLS & TOOLS

- PYTHON DATA ANALYSIS USING PANDAS/POLARS
- WEB FRAMEWORKS LIKE FLASK, FASTAPI, AND STARLETTE
- WEB SCRAPING WITH SELENIUM AND BEAUTIFULSOUP
- PROFICIENT IN ORACLE PL/SQL AND EXPERIENCE IN MONGODB
- PROFICIENT IN LINUX
- EXPERIENCE IN DOCKER & KUBERNETES
- EXPERIENCE WITH GIT VERSION CONTROL
- EXPERIENCE WITH AWS EC2 AND S3 MANAGEMENT
- AGILE PROJECT MANAGEMENT
- DATA-DRIVEN INSIGHTS

## WORK HISTORY

### ASSOCIATE CONSULTANT – PYTHON AUTOMATION LEAD

**HCL TECHNOLOGIES LTD, HCL TECHNOLOGIES | CHENNAI**

JAN 2024 - CURRENT

- Architected and deployed a robust Python-based Resource Utilization Reporting system by leveraging Prometheus APIs, enabling real-time data extraction, transformation, and visualization across 40,000+ server nodes
- Developed modular, reusable Python scripts to automate data parsing, aggregation, and reporting processes, ensuring scalability and maintainability of the solution as infrastructure footprint expanded
- Seamlessly integrated HashiCorp Vault with Python automation scripts to securely manage secrets, tokens, and credentials, ensuring compliance with organizational security policies while improving automation robustness
- Developed an automated certificate renewal solution for Citrix servers using PowerShell scripting, for monitoring, alerting, and managing certificate lifecycle tasks while reducing downtime risks and administrative overhead
- Utilized Python libraries such as requests, json, and pandas for API consumption, data manipulation, and structured report generation, optimizing resource consumption analytics and reporting capabilities
- Applied core DevOps principles to streamline automation pipelines and ensure seamless integration across multi-team projects, fostering collaboration and operational efficiency
- Led Sprint planning and reviews to drive team alignment and ensure consistent progress toward automation and infrastructure goals

# EDUCATION

## PG DIPLOMA

**AI & ML | GREAT LAKES
EXECUTIVE
LEARNING | CHENNAI, INDIA**

NOV 2019

## COMPLETION CERTIFICATE

**DATA
SCIENCE | MASSACHUSETTS
INSTITUTE OF
TECHNOLOGY | MASSACHUSET
TS, US**

SEP 2018

## CERTIFICATE COURSE

**LEARN PYTHON FROM
SCRATCH | UDEMY | CHENNAI,
INDIA**

JUN 2007

## BACHELOR'S OF
ENGINEERING

**ELECTRONICS &
INSTRUMENTATION | MADRAS
INSTITUTE OF
TECHNOLOGY | CHENNAI, INDIA,
INDIA**

## LEAD PYTHON DEVELOPER

**AMAZON | CHENNAI, INDIA**                    APR 2019 - JAN 2024

- Led and mentored a team of 8 while actively designing and developing Python-based automation solutions to eliminate redundant and manual operational tasks, improving process efficiency and accuracy
- Engineered automation frameworks using Python that delivered operational savings equivalent to approximately 50 HC, significantly enhancing scalability and reducing human effort
- Completed a Post Graduate program in Artificial Intelligence and Machine Learning, strengthening expertise in Python-based AI/ML frameworks and automation techniques
- Developed a Python-driven Machine Learning solution utilizing Computer Vision models to automate the detection of text-to-image similarity, enhancing catalog accuracy, reducing manual product validation effort by 70% and listing errors by 15%
- Built an end-to-end Natural Language Processing (NLP) pipeline in Python to automate sentiment analysis on customer reviews, cutting analysis time by 90% and generating real-time insights boosting CSAT by 5%

## SENIOR CATALOG ASSOCIATE

**AMAZON | CHENNAI, INDIA**                    NOV 2014 - MAR 2019

- Managed and mentored a team of 12 members, applying Python-driven data analysis and FMEA (Failure Mode and Effects Analysis) techniques to proactively identify operational bottlenecks and design technology-enabled mitigation strategies
- Led the development of Python-based automation solutions to streamline vendor coordination processes, improving requirement gathering and project scoping efficiency for new initiatives
- Supported the development of a classification-based Machine Learning model aimed at accurately identifying suitable product substitutes for unavailable items, improving product recommendation accuracy
- Collaborated with cross-functional teams to analyze operational data and develop Python tools that enhanced employee engagement insights and optimized key operational metrics
- Implemented Python scripts to automate periodic quality audits, ensuring strict adherence to organizational quality standards while reducing manual effort and human error
- Delivered automation-driven process improvements using Python and SQL, resulting in operational savings equivalent to approximately 35 HC through resource optimization, efficiency improvements, error reduction, and process excellence

## SYSTEMS ENGINEER

**INFOSYS TECHNOLOGIES | MANGALORE, INDIA**                    DEC 2007 - DEC 2010

- Was critical member of team that created and assisted in maintaining Motorola's back-end system for handsets, implementing enhancements to logic in PL/SQL packages
- Worked for Apple (Asia) - APAC region providing 24/7 on-call support for maintaining critical ticketing system and updating SQL logics when required.

# PERSONAL PROJECTS

- Linux enthusiast, hugely into FOSS (Free and Open Source Software) applications
- Running a HomeLab with self-hosted applications like opnSense, TrueNAS, Jellyfin, Pi-Hole, LogSeq, etc.
- Currently working on creating a web-tool for tracking expenses, with Python as the Backend, FastAPI for API end-points and MongoDB for database
- Love Angling, driving, gardening and playing football

# LANGUAGES

### TAMIL

Bilingual or Proficient (C2)

### ENGLISH

Bilingual or Proficient (C2)

### GERMAN

Intermediate (B1)