Sai Krishna Kanumuru

Python Developer || saikris199@gmail.com || (501)-237-6751

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https://saikris199.github.io/

Summary

- Skilled experience in Python with proven expertise in using new tools and technical developments (libraries: matplotlib, NumPy, Pandas, PLSQL DB for database connectivity) to drive improvements throughout the entire software development lifecycle.
- Have knowledge in Machine Learning and Problem-solving techniques, including profound expertise and experience on statistical data analysis such as transforming business requirements into analytical models, designing algorithms, and strategic solutions that scale across massive volumes of data.
- Excellent knowledge in Quality concepts such as control charts, SPC tools, lean Six-Sigma to inspect product performance and quality checks to ensure that everything follows high standards.
- Experienced in Agile Methodologies, Scrum stories and sprints experience in a Python based environment, along with data analytics, data wrangling and Excel data extracts.

Technical Skills

Programming Languages	Python3.x, SQL, C++, React.
Libraries	Pandas, Beautiful Soup, NumPy, SciPy, Matplotlib, React.js
Web Technologies	HTML, CSS, XML, Flask, REST APIs.
Database	Sqlite3, MongoDB, Oracle 19c
Visualization Tools	Tableau, Power BI, MS Excel, MS PowerPoint, Adobe Analytics.
Quality Tools	Lean Six-Sigma, Control Charts, Pareto Charts.
Project Management	Agile methodology Competencies: Leadership, Detail-oriented, Critical thinker, Communicative, Adaptable.

Python Developer   Feb 22, 2023 – Aug 22, 2023
Staffing Firm: Collabera LLC
Client: Bank of America Corporation
Description: Full stack Python developer, working on Rest APIs, unit test cases, Oracle DB.
Responsibilities:

- Built database model, views and APIs using Python for interactive web-based solutions.
- Implemented restful APIs in Flask as well as I use SQL alchemy where I write Python code that includes SQL scripts.
- Used SOLID principles for memory optimization and code refactoring. Utilized Pandas library for wrangling the data.
- Placed data into JSON files using Python to test Flask websites. Used Python scripts to update the content in database and manipulate files.
- Implemented responsive user interface and standards throughout the development and maintenance of the website.
- Involved in analysis, specification, design, implementation, and testing phases of Software Development Life Cycle (SDLC) and used agile methodology for developing applications.

Python Test Engineer   Oct 25, 2021 – Feb 18, 2022
Staffing Firm: TechPro Solutions Inc
Client: Google LLC
Description: Testing on a Hardware product using Jenkins pipeline and setup both Hardware and Software
environments.
Responsibilities:

- Writing test plans and creating test cases for the product.
- Work closely with departments within the company to ensure hardware is available for projects and
  working properly.
- Troubleshooting any errors and streamlining the testing procedures.
- Filing Bugs for developers what is found during testing and provides more information.
- Wrote Python scripts for Jenkins pipeline.

Automation Trainee   May 3, 2021 – Oct 22, 2021
Mechatraining LLC
Description: Training in ladder logic programming with Allen Bradley PLCs to integrate machine vision
systems into a PC or PLC based system.
Responsibilities:

- Developing and installing machine programs using automation software and custom coding languages.
- Determining machine automation test criteria before the final installation.
- Testing automated systems for efficiency, safety, and reliability.
- Overseeing the successful installation of PLC programs.

Craft Academy Jan 1, 2017 – Nov 30, 2020
Morehead State University
Description: Graduate Assistant / Residence Counsellor) Responsible for safety of 120 high school students
and provide advice to 15 Academy residents.
Responsibilities:

- Guide and counsel students in social skills and ensure accountability of students and perform good
  judgement when responding to crisis situations.
- Designed and supervised wing-mate activities regularly to support social interaction and work one on
  one with students through therapeutic measures.
- Created and implemented the RC-mentor program with another Graduate Assistant, where RCs and students on
  their wing meet one-on-one once per semester. The goal of the program is to build personal connections,
  breakdown barriers between RCs and students and ensure your residential needs are met.

Teaching Assistant (Spring II Term) March 2020 – May 2020
Morehead State University
Description: Graduate Teaching Assistant, assisted professors in preparing online course material, prepare exams, and
grading exams.
Responsibilities:

- EMM 386 – Computer-Aided Manufacturing – Prepared online course material for the class, 3 required exams,
  graded exams on Blackboard.
- EEC 141- Fundamentals of Electric Circuits – Graded 3 required exams for the class on Blackboard.
- CIS 205 - Introduction to Programming C++ - Graded 2 Assignments and Final Exam for the class on
  Blackboard.

Graduate Assistant (Space Science Center) Aug 2016 – Dec 2016
Morehead State University
Description: Graduate Research Assistant
Responsibilities:
- Assisted Professors to analyze the spectrum data for CXBN-2 and manipulated the simulation to make everyone understand.
- Assisted the CXBN-2 Software team, I have written the code for Password setup in the Ground Station Software.

Student SENATE at Student Government Association Aug 2019 – May 2020
Morehead State University
Description: Graduate Student Representative.
Responsibilities:
- Team member in public relations and actively developed the campus activities.
- Involved in campus activities and active participant in weekly meetings.

Education
Morehead State University, Morehead, KY
Master of science in Engineering & Technology Management **Nov 2020**
Master of Science in Space Systems Engineering **May 2019**

Thesis: Space Systems Engineering, May 2019
A Thermal Management Design Analysis POC tool (PyTherm) is a simple thermal analysis tool for small satellites restricted to 1U, 2U and 3U CubeSats. This tool is written in Python.
https://scholarworks.moreheadstate.edu/msu_theses_dissertations/350/

Audisankara College of Engineering Technology, Gudur, India
Bachelor of Technology in Electronics & Communication Engineering **July 2014**