**SAI KIRAN BOMMA**

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**PROFESSIONAL SUMMARY**

* Accomplished Python Full Stack Developer with a solid track record of designing and implementing end-to-end web applications and systems, showcasing expertise in both front-end and back-end development.
* Proficient in utilizing cutting-edge Python frameworks such as Django and Flask to deliver scalable, efficient, and secure web solutions that meet client requirements and exceed expectations.
* Highly skilled in front-end technologies, including HTML, CSS, JavaScript, and modern libraries like React, adept at creating intuitive and visually appealing user interfaces.
* Extensive experience in working with databases, including SQL and NoSQL databases, efficiently handling data modeling, migration, and optimization tasks to ensure seamless application performance.
* Engaged in pair programming sessions with another developer, sharing knowledge, and collaboratively working on code. Rotate pairs regularly to foster cross-team collaboration and continuous learning.

**TECHNICAL SKILLS**

Programming Languages: Python, Java.

Databases**:** SQL, MYSQL, MongoDB, Power BI.

Web Technologies**:** HTML5, CSS, JavaScript.

Python Libraries: NumPy, Pandas, Matplotlib.

Cloud Technologies: AWS.

Tools: PyCharm, Eclipse, Visual Studio, Git, GitHub, Jira.

Frameworks: Django, Flask, React.

**PROFESSIONAL EXPERIENCE**

**Mindtree, Hyderabad, India Aug 2019 – Jul 2021**

**Role: AWS Python Developer**

**Responsibilities:**

* Built and maintained the server-side logic and functionality of web applications using Python and relevant frameworks like Django or Flask.
* Designed and developed RESTful APIs to enable communication between the front-end and back-end components.
* Engage in pair programming sessions with another developer, sharing knowledge, and collaboratively working on code. Rotate pairs regularly to foster cross-team collaboration and continuous learning.
* Implemented data handling, processing, and storage using databases such as MySQL, PostgreSQL, or NoSQL databases like MongoDB.
* Deployed Django to EC2 Linux Instance and created EC2 instances with Python and Boto3.
* Uploaded data to S3 bucket and created DynamoDB tables with Lambda functions.
* Developed server-side software modules and client-side user interface components and deployed entirely in Compute Cloud of Amazon Web Services (AWS).

**Technologies and Tools used**: Python,Django,Flask,Javacsript,Numpy,Pandas,AWS,S3,EC2,Lambda, MySQL ,Git.

**Virtusa Consulting Services, Chennai, India May 2017 – Aug 2019**

**Role: Python Full Stack Developer**

**Responsibilities:**

* Created responsive and visually appealing user interfaces using HTML, CSS, and JavaScript frameworks like React.
* Back-end development: Develop and maintain server-side code, APIs, and web services using Python as the primary programming language.
* Designed and developed server-side applications and APIs using Python frameworks such as Django, Flask.
* Migrated successfully the Django database from SQLite to MySQL to PostgreSQL with complete data integrity.
* Generated property list for every application dynamically using Python modules like math, glob, random, itertools, functools, NumPy, matplotlib, seaborn and pandas.

**Technologies and Tools used:** HTML, Git, CSS, JavaScript, Django, Flask, MySQL, Python, Git, RESTful web service.

**EDUCATION**

**RIVIER UNIVERSITY NASHUA, NEW HAMPSHIRE**

Masters in computer science. Jan 2022-May 2023

**RELEVANT COURSEWORK**: Java Programming, Algorithms, Database Management Systems, Python, C Programming, Data Structures, Web Application Development, Machine Learning, Artificial Intelligence, Object Oriented Programming, Django, Flask.

**MASTER’S PROJECT:**

**Sherlock Voice-Controlled Virtual Assistant**

Virtual Assistant is a software program that responds to voice commands and performs tasks or retrieves information for the user. One such application of a voice-controlled virtual assistant is searching for information on the web with the command of the user and retrieving the information and giving back to user. This feature allows users to search for information on the internet without the need to type or even look at their screens. In this way, the assistant allows for a more seamless and efficient user experience. Sherlock is one such voice assistant to retrieve the information from web using voice commands. Sherlock can be a business requirement for Mycroft which is an open-source modular system that can be ported to your device or environment. Mycroft can have additional feature such as sherlock to its already existing features of Home Automation, Music Streaming, VPN and Secure Remote Controls.

**Tools and Technologies Used:**

Python, Pycharm, Github, Git, Visual Studio, Pandas, HTML,CSS,JavaScript,Django.