SHIBINO P ABRAHAM

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SUMMARY

Aspiring Python Developer with a strong academic background in Computer Science and hands-on internship experience in Python Full Stack Web Development. Certified in Python, React, and Web Application Development. Eager to contribute technical expertise in Python, web development, and database management to drive real-world project success.

PROFESSIONAL EXPERIENCE

Software Engineer Trainee (Internship)
Quest Innovative Solutions Private Limited | Ernakulam, Kerala   **September 2020 - March 2021**

- Developed a web application using Python - Django framework which includes full stack web development, performed a series of unit tests on the existing application, increasing test coverage by 80%.
- Engineered and optimized REST API endpoints utilizing SQL and Python, resulting in a 30% reduction in response time, enhancing system efficiency, contributing to a 40% improvement in overall application functionality.
- Diagnosed and resolved issues within the web application, employing effective troubleshooting and debugging techniques.
- Collaborated with the development team to identify and rectify software bugs, ensuring a seamless and error-free user experience.

EDUCATION

Bachelor of Technology in Computer Science	**2016 – 2020**
St.Thomas College of Engineering and Technology, Chengannur, Kerala	
Bio – Maths	**2014 - 2016**
Catholicate Higher Secondary School, Pathanamthitta, Kerala	
SSLC	**2014**
Mount Bethany English Higher Secondary School, Mylapra, Kerala	

SKILLS

- **Programming Languages**: Python
- **Web Technologies**: HTML5, CSS3, JavaScript, JQuery, React JS
- **Frameworks**: Flask, Django
- **Database Management**: MySQL, SQLAlchemy, SQLite, PostgreSQL
- **Version Control**: Git
- **Testing**: Unit Testing (pytest)
- Others: MQTT, REST API, Debugging, Automation

PROJECTS

IoT Based Autonomous Agricultural Robot:

- Innovated the development and implementation of an IoT Autonomous Agricultural Robot, leading to a remarkable 40% increase in crop yield, seamlessly integrated IoT technology and autonomous robotics, reducing operational costs by 25% and significantly improving overall farm profitability.

- Technologies Used: C, JavaScript, MySQL, MQTT(Protocol)

Employee Task Tracking and Rating System:
- Created and implemented a Python Flask web application that enhanced the performance evaluation process, resulting in a 25% reduction in task tracking time and improving overall team productivity.
- Technologies Used: Python, Flask, SQLAlchemy ORM, React JS (JavaScript Library)

Stock Management and Billing System:
- Deployed a Python-based warehouse management system, leading to a 20% reduction in billing errors and optimizing inventory management and retail processes, thereby enhancing overall operational efficiency.
- Technologies Used: Python, GUI Development(Tkinter), SQLite

CERTIFICATIONS

- Python Full Stack Web Developer - QIS Academy
- Career Essentials in Software Development – Microsoft and LinkedIn
- IBM Certifications on Python with Data science - Cognitive Class
- Building Chatbot with LLMs certification from IBM - Cognitive Class
- Complete Python Developer Certification - Udemy
- REST APIs with Flask and Python - Udemy
- Android App Development & Arduino Programming with AWS - LogixSpace
- Frontend & Backend Development - Great Learning Academy

SEMINARS AND WORKSHOPS

- Attended in the two-day workshop on **30, 31 October 2019**
"**Internet of Things using Raspberry Pi**"
Department of CSE, STCET in association with NoviTech Kochi, Kerala

- Participated in seminar on "**Wheeled Planetary Rovers**" **29 October 2019**
Department of ECE, STCET, Chengannur, Kerala

- Participated in the one-day workshop on **20 January 2018**
"**Introduction to Embedded Systems Development with Arduino**"
IEEE CML SB of Believers Church Caarmel Engineering College,
Perunad, Pathanamthitta, Kerala

PUBLICATIONS

An Autonomous Agricultural Robot Using IoT
International Journal of Computer Sciences and Engineering Vol. 8, Issue 7, July 2020
https://www.ijcseonline.org/pdf_paper_view.php?paper_id=5165&9-IJCSE-08250-36.pdf

LANGUAGES

- English
- Hindi
- Malayalam