**MANTHAN GAJJAR**

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**SUMMARY**

* A competent professional with proven experienced with Software Development, Web Development, Process Automation, Algorithm and Modeling, Embedded Systems and Internet of Things.
* Firsthand digital expertise to build large scale, high availability applications within the life SDLC and agile life cycles.
* Exceptionally well organized with a record that demonstrates self-motivation, creativity and initiative to achieve goals.

**TECHNICAL SKILS**

* **Programming:** Python2, Python3, Embedded C, C++, JAVA
* **Technologies:** HTML5, CSS, jQuery, Servlets, JDBC , web Services (SOAP and REST), Node.JS, Express.JS, React.JS, Bigdata.
* **Clouds & OS:** AWS, IBM Watson, Azure, ThingWorx, Unix/Linux, Raspbian, Ubuntu.
* **Frameworks:** Django, Flask, MVC, Spring, Hibernate, Selenium, Maven, Bootstrap.
* **DBMS:** Oracle, MySQL, Postgres, Mongo DB, DynamoDB, Hadoop.
* **Tools & IDE:** PyCharm, Microsoft Visual Code, Atom, Eclipse, NetBeans IDE, JIRA, Jenkin, Docker, Kubernetes.

**PROFESSIONAL EXPERIENCES**

**Dew Mobility Role**: **Product Engineer** *July 2019 – Present*

**Responsibility: (Python3 | C++ | Django | OpenCV | Embedded C| IoT | ML | Angular.js | DynamoDB | OCF)**

* Design, implementation and operation of a full-scale IoT architecture from asset connectivity through integration to other systems.
* Architected and developed **Python** and **Django** for the backend development and front-end application using**React, Redux and PostgreSQL** for database implemented Employee Timesheet and Payroll.
* Developed **python** scripts to achieve **interoperability** between **smart devices** based on Open Connectivity Foundation(OCF) Standards.
* Collaborating with the stake holders to create use cases for Smart Environment Monitoring, Smart Camera, Smart Agriculture for IoT enabled devices which suits the needs of customers and clients.

**AcademyX Role: Lab Instructor** Sept 2018 – Present

**Responsibility**:  **(Python3 | JAVA | HTML | Tableau | SharePoint | Google Sheets )**

* Provides a practical oriented in-depth step by step training to professionals from various industries.

**Advancement Ops, SSU** **Role**: **Data and Web Developer** June 2018 – May 2019

**Responsibility**: **(HTML | CSS | Bootstrap | SQL | I-MODULES (CMS) | Raiser’s Edge | Crystal Reports)**

* Collaborated closely with Directors, Vice President to develop work plan for Data Warehouse projects and provide support to Director and VP for creating a different kind of SQL queries and creating a personalized dashboard.
* Involved in **Planning**, Defining and **Designing** web page, Landing Pages, Reconfiguration of **Sitemap** and e-Newsletters.
* Achieved successful completion more than 10 of data integrity projects from identifying problems, planning, implementing and reporting.
* Perform in-depth **analysis** of research information for the purpose of **identifying opportunities** to, developing proposals and recommendations for use by management.

**ZineTech Role: Full Stack Developer** Dec 2014 – May 2017

**Responsibility: (Python | Shell Scripting | MongoDB | Flask | TDD | HTML | JavaScript )**

* Designed an end-to-end application for department internal usage with ReactJS-Redux on Frontend, Node.js for Backend, Kafka as a messaging queue, MongoDB for Database and Redis as an in-memory database for SQL caching.
* Develop consumer-based features using Django, HTML and Test-Driven Development (TDD).
* Developed module to build Django ORM queries that can pre-load data to reduce the number of databases queries needed to retrieve the same amount of data.
* Generated Python Django forms to record data of online users and used PyTest for writing test cases.
* Generating various capacity planning reports (graphical) using Python packages like NumPy, matplotlib.

**Engineering Science Role**: **Research Assistant ( Pitch Competition Winner for Engineering Stream)** *Jan 2019 – May2019*

**Responsibility: (Python | RPi3| Camera | AWS IoT | Lambda | Mxnet | Greengrass | SageMaker |MQTT)**

* Single handedly researched on Real-Time Object Detection Using General Purpose Low Cost Embedded Devices for IoT Systems.
* Deployed **Python Lambda** Function in RPi with an Inference of a trained **Object Detection** model in SageMaker and stored in **DynamoDB.**

**Freelancing Projects**

* **Realtor Web App**: Developed Real Estate Web App for a client where user can register and add our own property listings for sale, or we can reach out to the realtor for buying the houses.

**Technologies and tools:** Python, Postgres, Django, Gunicorn, NGINX, jQuery, HTML, CSS,

* **Data Encryption:** With use of Tkinter toolkit to develop a GUI and Vigenere cipher to create an Encoder which can encrypt the message using the key and can decrypt using the same key.

**Technologies and tools:** Python, Tkinter, Base64 encryption algorithm.

**Education**

**MS in Computer Engineering Science,** Sonoma State University, Rohnert Park, CA, USA Aug ‘17 – May’ 19

**BE in Computer Engineering ,** Gujarat Technological UniversityAhmedabad, Gujarat, INDIA July’10 - Dec’14