

## 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 SKILLS

- **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 – May 2019

#### 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, Unicorn, 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 University Ahmedabad, Gujarat, INDIA

July '10 - Dec '14

**Skills : Quick Learning (10/10) | Communication (9/10) | Mentoring (10/10) | Innovative (10/10) | Pitch Competition Winner**