

# Dhairya Hardikbhai Desai

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## EDUCATION

**Master of Science, Computer Science (GPA: 3.67)**, State University of New York at Buffalo (SUNY, Buffalo) **Dec 2018**  
**Bachelor of Engineering, Computer Science (GPA: 3.95)**, Maharaja Sayajirao University of Baroda, India (MSU) **May 2014**

## TECHNICAL SKILLS

- **Languages:** Java, C, C++, SQL, PL/SQL, MySQL, Python, R, JavaScript, HTML, CSS, PHP, Linux Kernel Programming
- **Framework/ Tools:** Microsoft Azure, Bootstrap, Android, Swing, Spring, PCF, Oracle ERP, Oracle BI, Power BI

## WORK EXPERIENCE

**Academic Intern, FedEx Services, Pittsburgh, PA** **Jun 2018 – Aug 2018**

- Built a **native cloud application** that provides real time patching status of VMs hosted on Microsoft Azure.
- Developed **REST APIs** to push the required data to client UI.
- Designed **client UI** with application level analytics and intuitive data filtering options.

Technology Stack: *Java EE, Spring Boot, JavaScript, HTML, CSS, Bootstrap, Microsoft Azure, Pivotal Cloud Foundry, Power BI*

**Oracle Application Developer, Evolutionary Systems Pvt. Ltd., India** **Jun 2014 – Jul 2017**

- Developed application/dashboard using **OA Framework (Java) and PL/SQL packages** to maintain inventory items.
- Designed and maintained custom modules for Supply Chain and Finance processes for Oracle ERP.
- Built **SQL scripts and queries** to generate dynamic reports as per complex user requirements.
- Developed scripts and **APIs to automate data integration** for millions of records.
- Worked with the **Research & Development team** for the first Oracle Fusion-ERP Cloud implementation of the company.

Technology Stack: *Java EE, SQL, PL/SQL, Oracle Developer Suits, OA Framework, Oracle BI*

**Web Developer, FootPrints, India** **Sept 2012 – Mar 2013**

- Designed and maintained the website for FootPrints, a national level technical event organized at MS University annually.

Technology Stack: *HTML, CSS, JavaScript, PHP, MySQL, Adobe Photoshop, Wordpress*

## PROJECTS

**SQL Query Engine (Java)** **Apr 2018**

- Build a relational query engine to **parse SQL queries** and produce required data.
- Also implemented an optimizer to improve performance along with correctness of result.

**Intelligent Personal Assistant (Java)** **Jan 2014**

- Developed an android application with voice assistance to answer questions, make recommendations, manage social applications and perform specified actions.
- Designed an **NLP algorithm** using Stanford CoreNLP to create a **language parse tree** to extract actionable information.

**Software Defined Routing (C)** **Oct 2017**

- Implemented a simplified version of the **Distance Vector protocol** over simulated routers and built the forwarding table to determine the shortest path between any two routers.
- Handled multiple socket connections and implemented **virtual timers** to build the Control and Data planes of the router.

**Chat Messenger with File Sharing (C)** **Sept 2017**

- Developed a file sharing and text-chat application consisting of one server and multiple clients over **TCP connections**.
- Provided additional features to block a client, broadcast a message and view the status of various logged-in clients.

**Regression Analysis (Python)** **Feb 2018**

- Worked with high-performance concrete (HPC) dataset and implemented various **Regression models** to determine the best model among them. Performed K-fold cross validation to determine the optimal regularization parameters.

## HONORS AND SERVICES

- Won the **Director's Choice Award** for my internship project at FedEx Services.
- Received a certification in **Web Designing** from Ascent Computer Education.
- Took part in an anti-plastic campaign under which our team built a paper-bag that held the record for largest paper-bag in the world which was officially recognized by the '**Guinness Book of World Records**' as well as '**Limca Book of Records**'.