

Hiren Mayani

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Academic Details:

- **MS in Computer Science**, [Stony Brook University, New York](#) **Aug`17 - Present**
 - **GPA: 3.92/4**
 - **Coursework:** Parallel Programming, Analysis of Algorithm, Artificial Intelligence, Big Data Analysis, Database Systems, Machine Learning
- **B.Tech in Computer Engineering**, [Dharmsinh Desai University, India](#) **July`11 - May`15**
 - **CGPA: 8.46/10**
 - **Coursework:** Operating Systems, Database System, Data structures, Design & Analysis of Algorithms, Object Oriented Modeling, Knowledge Discovery, Image Processing, Artificial Intelligence, Software Engineering

Work Experience:

- **Product Engineer(R&D)**, [Edgeverve Systems](#) **May`15 - July`17**

Worked on COMPASS - A product developed to design and manage next-gen workplaces.

 - Single-handedly developed an application using Elasticsearch, Java, and Kibana to analyze *live* email log data.
 - Designed and developed SOA web services to orchestrate among different components of a highly integrated solution using Oracle Middleware. These services are being invoked 5,000+ times per minute through mobile, web and tablet applications.
 - Developed a distributed web-application to reserve workspaces using MongoDB and node.js. To ensure high availability and latency of the system, an application was deployed on the 4 nodes and database was distributed over 6 shards.
 - Developed and tested(unit & functional) automation scripts to perform routine tasks using Java and OracleDB.
 - Built models to predict whether the user will show up or not with the help of classification algorithms like SVM, Logistic Regression, random forest, Naive Bayes etc. in R. Final classifier was having 81% accuracy.
 - **Technologies:** Java, OracleDB, BPEL, ELK, node.js, MongoDB, R, Tableau
- **Software Engineering Intern**, [PupleDocs](#) **Dec`14 - Mar`15**

Worked on digitalizing million+ paper-based medical documents and making them available online using cloud application.

 - Contributed in migration from SQLite to MySQL based web application which speeds up the application by 1.4 times.
 - Developed Java utility to extract data from Excel files and store it in a database.
 - **Technologies:** Java, HTML, CSS3, js, Ajax, Restlet, MySQL

Projects:

- **Length of Stay Prediction** (TensorFlow, Deeplearn.js) **Dec`17 - Present**
 - Developing different deep learning and regression models to predict how long patient is going to stay in the hospital.
 - This work is being done with Dr. Jonas Almeida and we are using 15 million+ New York patients observations.
- **Climate Dataset Analysis** (Python3, Spark, TensorFlow) **Sept`17 - Dec`17**
 - Big Data Analysis course project in which we analyzed co-relation between climate change and deforestation using 100+ GB [NOAA](#) datasets.
 - Built predictive models for deforestation and climate forecasting using tensorflow.
- **API for Gesture recognition** (Java, OpenCV, Python) **Sept`17 - Dec`17**
 - Developed an API that let users interact with a computer using gestures of face, eyes, & hands.
 - Software/Game developers can include this library in their code to generate events when any facial/hand gestures occur.
- **Smart website loader** (Java, PHP, javascript) **Dec`13 - Apr`14**
 - Developed this system to detect client's connection speed and serve content based on it i.e the user with higher connection speed will get better GUI while the user with lower connection speed will get degraded GUI.
 - [International Center for Entrepreneurship and Technology](#) funded this project for further development.

Skill Set:

- **Programming Lang.:** Java, Python, MongoDB, Hadoop MapReduce, spark, OpenCV, R, C, Elasticsearch, Kibana, MySQL
- **Web-centric Skills:** Javascript, Node.js, PHP, Wordpress, ASP.Net, HTML5/CSS3, jQuery
- **Tools:** Tableau, Eclipse with SVN & Git, jDeveloper, Microsoft Visual Studio, IntelliJ

Achievements:

- Won Code Relay coding contest organized by Infosys, India.
- Secured silver in CodeAgon coding contest on Hackerrank.
- Website Development Head for DDUConnect.in (university magazine) for 2 years.
- Lead team of 7 people to develop a website of Felicific'14, an annual techno-cultural festival of the university.