

Harsh Jatinbhai Patel

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EDUCATION

North Carolina State University, Raleigh, North Carolina

August 2018 – December 2019

Master of Computer Science (GPA: 3.87/4.0)

Nirma University, Ahmedabad, India

July 2012 – June 2016

Bachelor of Technology, Computer Science (GPA: 8.72/10)

TECHNICAL SKILLS

- **Programming and Scripting Languages:** Python, JavaScript, C++, R, Java, Bash.
- **Web Development Languages and Frameworks:** TypeScript, React, Node.js, Angular, HTML, CSS, D3.js, PHP
- **Databases:** MongoDB, MySQL, DynamoDB, Graph DB(Neptune), Oracle Database.
- **Tools and Frameworks:** AWS, Docker, Git, GraphQL, Apache TinkerPop, Hadoop, Kafka, Spark, TensorFlow, Jenkins, Ansible, Selenium, Webpack, Keras, ElasticSearch, Zookeeper, Firebase.

WORK EXPERIENCE

Software Engineer, Autodesk, San Francisco, CA

January 2020 – Present

- Developing a graph-based data platform to provide vulnerability and application metadata data for all products and services at Autodesk that can be queried to obtain data to identify potential security exposures and anomalies using Machine Learning.
- Developed (Backend-Frontend) a Security Dashboard to display vulnerability data and security posture of Autodesk products.
- Built REST APIs to integrate infrastructure and application vulnerability scan data from different scanning tools to provide stakeholders real-time data for issues reported in the products from vulnerability scanning tools.
- Built a scalable data pipeline to process, store and publish real time vulnerability data for Autodesk products.
- Optimized data ingestion and import from infrastructure scans by 37% leveraging multithreading and multiprocessing.

Software Engineer Intern, Akamai Technologies, Cambridge, MA

May 2019 – August 2019

- Developed a search tool using various NLP embeddings and Text Classification techniques on the indexed text data.
- Built a chat interface to consider user-based feedback and provide additional choices to provide user-specific search results.

Software Engineer (Full Stack Developer), Tata Consultancy Services, Pune, India

June 2016 – June 2018

- Developed a Content Management and Display web application, where stakeholders can upload videos, text descriptions, and images, the content was pushed to a mobile app that was used to demo various products of the business.
- Created hybrid cross-platform mobile applications for Android and IOS to display revenue stats and KPIs of a company.
- Developed a form builder web application to generate a form based on custom labels and types provided by a user.

Technology Analyst Intern, Morgan Stanley, Bangalore, India

May 2015 – July 2015

- Built a wealth management portal using ExtJS, JavaScript along with an analytics dashboard for data visualization using D3.js.

PROJECTS

Trending Topic Miner

- Designed a scalable and fault-tolerant data pipeline using Python, Spark, Kafka and Elastic Search to get real-time top trending topics and tweets from twitter streams by implementing the count-min sketch data structure and the Heavy Hitters algorithm.

Sales Forecasting Web Application

- Developed a web application for forecasting the product sales of a company. Implemented different Generalized Linear Modeling Techniques using Python and used JavaScript to implement the analytics dashboard.

Inventory, Stock and Sales Management Application

- Developed the application using PHP, Chart.js and MySQL to track stock, inventory and sales of any business along with an analytics dashboard to display the sales statistics which also displays prediction of sales using linear regression.

Stock Market Analytics Module

- Implemented a stock market analytics module using the Map Reduce framework of Hadoop by consuming historical stock data. which provides a statistical summary report to build the prediction module for stock market prediction.

EXTRA-CURRICULARS

- Technical Merit Award Winner at the LexisNexis Hackathon 2018.(Used Machine Learning and Data Science techniques to detect and correct errors in a given data set by pattern analysis with the help of training data.)
- Creative Head at the IEEE Student Branch, Nirma University(2014 - 2015), Organized several Competitive Programming events and Technology Symposiums at the university.