CHAITANYA KULKARNI

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PROFESSIONAL EXPERIENCE

IBM India Pvt. Ltd.   **February 2018 - May 2019**
Business Intelligence Application Developer   ***Kolkata, IN***
- Forecasted data for Revenue, Expenditure, Profit and Loss in OLAP cube database using PowerBI and OLAP techniques such as SSIS, SSAS and report generation by SSRS to predict 18-months future revenue shipment data based on over 200 Million shipment transactions
- Led team of five System Engineers in developing the automated system that generated monthly financial detailed reports by reconciling data from five other applications in parallel manner to minimize manual effort and reduce time by 70%
- Awarded as best project among 25 others for *Blood Donation Portal* developed in Java Servlet and JSP during training
- **Certifications:** Travel & Transportation Industry Foundations, Enterprise Design Thinking Practitioner, Python for Data Science, Cognitive Practitioner

AnAr Solutions Pvt. Ltd.   **September 2017 - February 2018**
Software Developer   ***Pune, IN***
- Built a *Campus Management System* online tool having user authentication and authorization using identity framework in .NET MVC architecture and implemented 2-way binding using Knockout JS and user interface using Kendo UI to reduce its load time by 80%
- Designed and composed a boilerplate code for any .NET application using Onion Architecture pattern to increase maintainability and long life of the project by loosely coupling each layer to reduce the time consumption and improving efficiency by 2x

EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science
Master of Science, Computer Science | Cumulative GPA – **3.9/4.0**   **Aug 2019 - May 2021**
Courses: Data Structures, Algorithms, Operating Systems, Web Development, Machine Learning, Data Mining, Adv. Cloud Computing
Savitribai Phule Pune University, AISSMS College of Engineering
Bachelor of Engineering, Computer Engineering | Cumulative GPA – **3.4/4.0**   **June 2013 - July 2017**
Courses: NLP, AI, Design Patterns, Internet of Things, Distributed Systems, Networks, Computer Architecture and Organization, Database MS

TECHNICAL SKILLS

Programming Languages: C++, C#, Java, Python
Technologies: NodeJs, HTTP Rest APIs, HTML5, CSS3, Bootstrap, jQuery, JavaScript, KnockoutJs, MustacheJS, ReactJS, Kendo UI, JSP, Spring Boot, Spring MVC, Servlet, Hibernate, React Native, ASP.NET
Additional Tech.: Microservices, Entity Framework, PowerBI, MSBI, Firebase, OpenSSL, Apache Tomcat, XML, YAML, JSON, LaTeX
Cloud: Docker, Google Cloud Platform (GCP), Google Kubernetes Engine (GKE), Mininet, SDN
Databases: SQL, MongoDB, Oracle 11g, OLAP Cube Databases
Tools: Git, Jira, Visual Studio, Eclipse, SSMS, Webstorm, PyCharm, Eclipse, PuTTY, INFOR OLAP Tools

PROJECTS

Stock Trends Prediction Powered by Microservices Architecture | *Binghamton, NY*   **Fall 2020**
- Developed a web application using four loosely coupled microservices with their own load balancers and independent execution environment to anitcipate future stock trend values and display past and future stock trends on the dashboard using nodeJs
- Optimized support vector regression (SVR) and linear regression (LR) prediction models to predict and determine next 30 days stock trends by extracting multiple features from multi-dimensional stock data provided by Yahoo Finance to obtain a confidence score of 0.929
- Dockerized and deployed the application on Google Kubernetes Engine (GKE) and provided orchestration features like Horizontal Auto-scaling and Load Balancing to increase efficiency by 90% and achieved lower resource utilization

Web Spider for Dataset Generation | *Binghamton, NY*   **Fall 2020**
- Designed and developed a web spider in Python that scrapes website data using a Beautiful Soup library and extracts useful information from webpage automatically to construct detailed and meaningful dataset for the detection of phishing and benign websites

Sentiment Analysis of IMDB Movie Reviews | *Binghamton, NY*   **Spring 2020**
- Constructed a classification model to calculate the success rate of movies (positive or negative) based on classification of emotions within text reviews on IMDB website using Logistic Regression, Support Vector Machine, and Naïve Bayes to get accuracy of 0.87
- Preprocessed dataset by removing HTML tags, Lemmatization, filtering stop words and special characters, and Text Tokenization
- Feature extraction using Bag-of-words that uses count-vectorizer to calculate frequency of each word to classify correct sentiment

Internet Blogging System | *Binghamton, NY*   **Spring 2020**
- Developed a responsive internet blogging website in nodeJs in which users can post/edit articles, and comment on any article and designed user interface using logic-less library MustacheJS that rendered webpage 10x faster
- Implemented HTTP REST APIs based project infrastructure using ExpressJs and CORS to increase scalability

Voice Controlled Personal Assistant Device that Connects IoT Devices | *Undergraduate, Pune, IN*   **June 2017**
- Redesigned a hardware assistant device by optimizing NLP and artificial intelligence algorithms to make a human & machine conversation more interesting. Integrated various opensource apis to scale functional capabilities and won "Best Undergrad Project" award among 30
- Developed an android application along with IoT box consisting of LCD screen, curtains & light controls and demonstrated interconnectivity between the application, assistant and IoT devices via Google Cloud server and Google Firebase

For more projects, please visit - http://bit.ly/projects-ck

JOURNAL PUBLICATIONS

- Chaitanya Kulkarni "Study of Voice Controlled Personal Assistant Device." *International Journal of Computer Trends and Technology (IJCTT)* V42(1):42-46, Dec 2016. ISSN:2231-2803. Link