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# Hemanth  Inakollu

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**Location:** Buffalo, NY.

## Education

**Masters in Computer Science | University at Buffalo | USA**      **Feb 2021**
Course work: Analysis of Algorithms, Information Retrieval, Operating Systems, Introduction to Machine Learning

**Bachelor of Engineering, Information Technology | Osmania University | India**      **June 2017**
GPA: **3.96**
Course work: Data Structures, Database Management Systems, Object-Oriented Systems Development, Web Technologies, Data Warehousing, Data Mining, Artificial Intelligence, Cloud Computing.

## Computer Skills

- C, C++, Java, .NET Core, Python, PL/SQL, HTML 5, JavaScript, CSS, PHP, JSP/Servlets, XML, Pega.
- Android Studio, Eclipse, Visual Studio, Bootstrap, Git, MySQL, Postgre, SOAP, RESTful web-services.

## Professional Experience

**Associate Software Engineer | Pegasystems | Bangalore, India**      **July 2017 – June 2019**

- Worked on various PRPC( Pega Rules Process Commander ) 6.x/7.x/8.x areas like Data Modelling, Case Management, User Interface, Security and Core Engine.
- Worked on developing business flows with logic and POC's using Activities ( Java code snippets along with PRPC in-built steps ), Class Structures and Data Model by gathering client's business requirements and specifications.
- Worked closely with Architects and Subject Matter Experts in delivering more than 200 solutions/fixes to clients and customers in order to expedite their development and testing cycles in the span of 2 years.
- Worked effectively in debugging existing Pega platform issues in the area of User Experience, Deadlock Management, Application Performance and initiated enhancements for future Pega releases.
- Played a key role in analyzing Cross-Site Scripting(XSS) attacks for various client applications to provide permanent solutions that received huge appreciation from higher management.
- Gained knowledge on various background activities including the Architecture of Usage and License Daemons for Application Usage Statistics and Reporting, Agents, SQL Query Optimization for Performance, Email and File listeners for case processing.
- Explored various Customer Relationship Management(CRM) frameworks like Sales Automation, Customer Service, Robotic Automation, etc
- *Technologies:* Java/J2EE, HTML 5, CSS, JavaScript, SQL.
  *Tools:* Fiddler, Tracer, Thread Dump Parser.
  *Certifications:* **Senior System Architect**, **System Architect**, **Oracle Certified Java 6 Professional** and **User Interface Specialist**.

**Web Developer Intern | MLIT Solutions | Hyderabad, India**      **Feb 2017 – May 2017**

- **Industrial Internet of Things** | PHP, MySQL, Bootstrap, CSS
- Developed features like pdf report generation, Email alert notifications for machinery cycles to present live sensors data to business users and stakeholders.
- Enhanced UI by implementing Bootstrap CSS which received client appreciation and user satisfaction.

**Student Intern | Progress Software Corporation | Hyderabad, India**      **June 2016 – Aug 2016**

- **.NET CORE Connectivity to Progress Data Direct Cloud** | .NET Core, SQL, Cloud, Linux, Docker
- Developed a POC database driver for .NET Core applications that connect to Progress Data Direct Cloud by analyzing existing JDBC driver code
- Tested the built application database connectivity to MS SQL Server Instance and Progress DataDirect Cloud on Linux coreclr runtime and Docker image for Linux (Ubuntu 14.04) container that the ability that this application can be deployed in cross-platform using the DNX SDK

## Projects

**CPU priority scheduler and thread synchronizer in pintos**      **Oct 2019**

- Implemented priority-based thread scheduling along with priority donation on pintos operating system for effective resource utilization in the C programming language.
- Implemented Multi-thread synchronization using semaphore primitives.

**Document-at-a-time (DAAT) retrieval with Boolean Retrieval Model**      **Oct 2019**

- Developed an inverted index for a collection and implemented DAAT for AND / OR queries  based on Boolean Retrieval Model
- Implemented TF_IDF scoring to rank the retrieved documents for boolean term queries.

**Multi-Class Classification using Neural Networks Model**      **Oct 2019**

- Implemented a back-propagation Machine Learning Algorithm for Neural Networks with single hidden layers using Numpy in python to predict classes for the fashion MNIST Data set.
- Compared predicted accuracy with multi-layer and convolutional neural networks that are implemented using TensorFlow's Keras API.

**Classification using Logistic Regression Model** **Sep 2019**

- Implemented a Gradient Descent Machine Learning Algorithm for Logistic Regression model using Numpy, Pandas and scikit-learn libraries in Python
- Achieved 98.2% accuracy in predicting Benign/Malignant diagnosis on WDBC Cancer Data set

**Twitter Data Ingestion on Apache Solr using Twarc** **Sep 2019**

- Crawled Twitter Data hashtags, tweet replies related to political personalities using Twarc Python library and Twitter API.
- Performed logical preprocessing of JSON data for ingestion and implemented language detection with pattern replacement in Solr.
- Got hands-on experience on tokenization, indexing, deduplication, schema and querying data in Solr.

**Campus Recruitment Portal** **April 2017**

- Built a user-friendly PRPC application on Pega 7.2 to automate the process of campus recruitment in colleges by using automated decisions that resulted in the elimination of paperwork and repetitive tasks.
- Developed user portals for students, staff, and companies with their respective roles and actions. Designed and implemented process flows( primary and alternate) for both student and company users.

**Item Locator Mobile Application** **Nov 2015**

- Built an interactive Android Application that fetches information about items like location, price, quantity, brands, etc in a shopping mall.
- Integrated Google Search APIs and third-party user authentication modules for better user experience and security.
- Gained preliminary experience in Mobile App Design using Android Studio and SQLite Database Management.

**Food Ordering Portal** **April 2015**

- Built a simple and elegant GUI based food ordering portal providing unique features like most popular foods by restaurants. Features include a restaurant's detailed menu and its amenities, and order placing mechanism with quantity selection.
- Gained preliminary experience in web application design and development using Bootstrap.

**Bus Reservation System** **Dec 2014**

- Developed a fully functional bus reservation interface that includes features like booking, cancellation, and status check of the bus tickets.
- Gained experience in File System Management, Searching Techniques, Sorting Algorithms, and effective String Handling.

## *Awards and Activities*

- Top 10 Worldwide for Pega Product Support Community ( PSC ) Contributions - Pegasystems.
- STAR Award - Pegasystems.
- Academic Excellence Award - Vasavi College of Engineering, Osmania University.
- 1st Prize in Tech buzz Competition - Information Technology Department, Vasavi College of Engineering.
- 2nd Prize Reverse Coding Event -  Indian Institute of Technology, Chennai.