

BURDE PRERANA KAMATH

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OBJECTIVE

To obtain an internship that utilizes my computer science knowledge and analytical skills culminated with an optimistic attitude to gain career experience in Computer Science.

EDUCATION

Indiana University, Bloomington, IN *May 2018*
Master of Science in Computer Science, CGPA: 3.33/4.0

BITS - Pilani, Dubai, United Arab Emirates *June 2016*
Bachelor of Engineering in Computer Science, CGPA: 8.26/10.0
Leadership: Captain of the Table Tennis team 2012-2016, Captain of the volleyball team 2015-2016
Core member and editor for ACM.

TECHNICAL SKILLS

Programming Languages: Python, R, C, C++, Java, HTML5, CSS, JavaScript, and JQuery
Tools/Applications: Eclipse, Spring, Hibernate, R Studio, WordPress, Pycharm, and NetBeans
Database: MySQL

EMPLOYMENT

Levtech Consulting | Intern | Dubai, UAE *June 2014 – August 2014*

- Worked with Microsoft Dynamics on CRM and leveraged their dynamics product suite.
- Created case studies to acquire customers and resolve business intelligence problems such as storing data securely.
- Constructed cloud solutions to track production and the risks associated.
- Customized the Microsoft Dynamic tools for different customers.

PROJECTS

Mental Health Analysis on Twitter *April 2017*

- Mined mental health data using twitter API.
- Determined the severity of the tweets in specific geo-locations to predict required help, using sentiment analysis.
- Modelled multiple linear regression to find the help required in geo-locations using retweet and favorite count.

Xinu Operating System *February 2017*

- Solved synchronization issues such as producer-consumer, dining philosophers and readers-writers using mutex.
- Implemented conditional variables to synchronize access to shared resources using the test-and-set instruction by disabling and restoring the interrupts.
- Programmed the process ring conditions: deadlock, infinite loop and race condition.

e-Commerce website *December 2016*

- Launched an E-Commerce website to encourage young entrepreneurs financially and attract investors looking to invest in innovative startups.
- Developed a kick starter-style web app using JAVA, Spring, Hibernate, SQL, using waterfall model.
- Designed the wireframe for front-end using Bootstrap.

Neural networks *December 2016*

- Implemented a fully connected feed forward neural network to classify image orientation.
- Modeled and trained the neural network using the backpropagation algorithm, using gradient descent.

Probabilistic Models *November 2016*

- Built a model based on the Naïve Bayes algorithm to classify spam mails.
- Generated Part of Speech tagger using Bayes Net, Hidden Markov models and the Variable Elimination algorithm.

Randomized vs Deterministic Algorithms *October 2016*

- Compared the classification accuracy of Random Forests versus KNN.
- Analyzed the running time of Randomized Quicksort versus Quicksort with increasing dataset sizes.

Comparative analysis of the K-Nearest Neighbor *December 2015*

- Assessed the accuracy and the running time of KNN on R, RSpark and Python using the EC2 instances.
- Demonstrated that RSpark had the best running time while Python learnt the dataset better.

RESEARCH INTERESTS

Cognitive Sciences, Data Mining, Natural Language Processing and Adversarial Reasoning