RAJ MISHRA

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About me: https://lordphoenix.github.jo/ | Github: https://github.com/lordphoenix/ | Blog: https://lordphoenix.github.jo/blog/

EDUCATION

The University of Texas at Dallas, Richardson, TX

August 2021 - June 2023

Master of Science in Computer Science

Courses: Operating Systems, Discrete Structures, Machine Learning

Birla Institute of Technology, Mesra, Ranchi, India

August 2014 - June 2018

Bachelor of Engineering in Electronics and Communication

Courses: Computer Networking, Neural Network and Fuzzy Systems, Probability Model and Stochastic Processes

SKILLS

Languages: C/C++, Java, Python, SQL

Frameworks: Flask, REST/RESTful, Tesseract-OCR, Selenium, JUnit

Tools: Vi/VIM, Putty/SSH, DBeaver

OS: Linux Red Hat Enterprise 7.x, Ubuntu, Windows, MacOS

CI/CD: Git/Github, Jenkins, Github CI, XLDeploy

Machine Learning: Neural Networks (CNN, RNN, LSTM/GRU), Matrix calculus, Theano, Pandas, Numpy

Basic Exposure: Azure, Heroku, Spring, Bash

Misc: YAML and Heira, CMake, Jira, XML(XSD) schema, Data Structures and Algorithms

EMPLOYMENT HISTORY

Specialist Software Engineer, Société Générale, Bengaluru, KA, India

July 2018-August 2021

- Developed OCR platform based upon Tesseract which replaced Abbyy, saving costs of around EUR 58K
- Built a web-automation tool replacing Automation Anywhere across business units, saving licence costs by 12.5%
- Automation of production checks using python and selenium, reducing workload by 100 Mandays
- Implemented Non Regression Test suite using Cucumber, reducing production incidents by a drastic 45%
- Responsible for configuration management of all onboarded application in our perimeter
- Remodeled reporting of warrant deals which saves around EUR 120K every year towards live trade costs
- Implementation of North America re-architecture project harmonizing trade reports across asset classes
- Mentored and guided many new joiners through the project and core modules of the application
- Migrated application (specific features) owned by a different team to our cluster, reducing dependency by 100%

PROJECTS

• CANN (C++ Artificial Neural Network)

January 2021 - Present

- Out of personal interest built an autoencoder artificial neural network with Backpropagation learning in C++
- Added feature of loading and saving weights and biases
- Built configuration management support for hyperparameters with JSON
- Did setup of automated make build with Github CI
- Future Scope: Expanding the project to support different kinds of Neural Networks such as CNN and RNN
- Project URL: https://github.com/lordphoenix/cann

News Aggregator

May 2020 - July 2020

- Built a website which displayed news from various online sources
- Configured a tomcat server running ubuntu to host the website
- Setup a cron job to regularly fetch data from web pages and update the database
- Future Scope: Using Machine Learning to prioritize and show contents based upon preferences
- Technologies Used: Python, Web Scraping using Beautiful Soup, SQL Database, php, Bootstrap

ACHIEVEMENTS AND EXTRACURRICULARS

- Secured 12th position in competitive coding competition conducted across Société Générale
- Mentored a group of 3 sophomores for competitive programming during my senior year at BIT Mesra
- Global rank of 37 in Codechef Snackdown 2016 Pre-Elimination Round B
- Guitarist for college band "7th Mile", performed at various live events on campus during my undergrad
- Core Leading members of organizing committee for on campus college festivals during undergrad
- High school topper for Chemistry and Mathematics in All India Senior School Certificate Examination, 2014