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passionate about theoretical computer science

Summary

I am a passionate keen learner, always happy to extend capabilities **java, python, algorithms, theoretical computer science**

Technical skills

programming Languages: python, **java**, c

databases: sql databases

version control: git, perforce.

other skills and interests: algorithms, **artificial intelligence**, **agile** methodologies, spring, **unix** shell scripting, docker, bpm tools, **blockchain**, neural networks, **complexity theory, apache spark, apache kafka**

Education

University of Texas at Arlington   **May 2019**

Master of Science in Computer Science

Design and Analysis of Algorithms, **Advance Computational Models and Algorithms**, **Neural Networks**, **Artificial Intelligence**, Relational Databases, **Software Engineering**, Data Modelling and Analysis Techniques, Cloud Computing, Distributed Systems.

University of Pune   **May 2014**

Bachelor of Engineering in Computer Engineering

Work Experience

Summer Technology Analyst   **Barclays Capital, New York, United States**   **June 2018-August2018**

- Did Internship in technology division at Barclays. Being part of post trade processing, I created a POC and a documentation for finding SSI (Standard Settlement Instruction) for trade settlement. It was simulation of legacy system named GOS. It reduced the time to retire the legacy system and implement this feature in new system. I conducted an organization wide python introductory session that focused on python for banking after which many colleagues having no programming background started coding.

Software Developer   **Amdocs, Pune, India**   **December2015-July2017**

- Worked in Operational Support System division for AT&T, acted as a problem solver for development criticalities and production issues. When needed I also worked with production databases and direct interaction with clients.

Application Developer   **iNautix Technologies, Pune, India**   **July2014-December 2015**

- Worked on Managed Investments platform owned by Pershing LLC. Received appreciation for suggesting and incorporating simple but tricky and clever solutions major business problems, which directly impacted client service. Contributed in quality improvement and optimization of code.

Projects

Cloud Computing (August 2018 - Present)- Finding trending content on twitter using kafka and spark.

Artificial Intelligence (January 2018 - Present)- Implementation of various AI algorithm and strategies i learned.
https://github.com/nikhil19kekan/Artificial-Intelligence

Multithreaded Chat (September 2018)- A multithreaded chat application that demonstrates concurrent executions on shared data. Used java8's thread executor service for efficient thread dispatching and socket programming to simulate concurrency.

Grocery Planner (Sept 2017 - Present)- Android application, includes prioritized prediction of grocery needs, alerts, expenditure statistics, expenditure splitting, scanning of products. Developed the product scanning feature that scans product barcode using phone camera to record all product information and use that information to update lists and expenses creation.
https://github.com/nikhil19kekan/GroceryPlanner

Database Projects (Nov 2017 – Dec 2017) - Project 1 developed SQL queries to **demonstrate different concepts in relational database** to retrieve specified data from provided database schema and wrote a java program to load data into database using Excel or CSV files.

Project 2 involved database designing for a sample car-rental service. Created EER diagram, database schema and developed a simple web application for the same. It helped me understand and implement the database interactions for a web application.

Solid State Drive's Performance Analyzer (May 2013 -May 2014) – Developed an application that could analyze and graphically demonstrate performance and calculate current life expectancy of SSD by performing various kinds of read/write operations. Used java swing, flexible i/o tool and remote procedure calls in java. comparison of the results with traditional disk drives shown clear distinction and future use of SSD's as storage devices.

Tutoring

Informational videos about concepts of computer science fundamentals mostly on Algorithms youtube.

Publications

Solid State Drive Performance Analysis Using Flexible I/O at IJARCCE, Vol 3, January 2014