Shaifil Maknojia

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EDUCATION:

University of Florida, Gainesville, FL, USA   **Aug '18 - May '20**
Master of Science in Computer Science   GPA (3.60/4)
Courses: Algorithms, Networks, Distributed OS, Database Systems, Concurrent Programming, Divergent Thinking, Statistics

University of Mumbai, India   **Aug '12 - May '16**
Bachelor of Engineering in Computer Engineering   GPA (7.85/10)

WORK EXPERIENCE:

Software Developer Engineer Test, ESRI   **Jan '21 – Present**
- Enhanced the testing framework to automate the validation of the REST endpoint operations reducing manual effort required for verification resulting in added robustness and certainty to the system
- Developed a datastore upgrade tool to add/update features on the Arango/Neo4j database to make it forward compatible with latest version of ArcGIS Enterprise
- Automated the daily build, deployment, regression testing process by setting up a CI/CD environment using Jenkins, GitHub webhooks
- Extended the Java testing framework to support concurrency testing using Futures and Concurrency API in Java

Student Web Developer, University of Florida   **Oct '19 – Dec '19**
- Designed and developed an interactive mobile friendly web app for Microbiology dept, added support for disabled users
- Revamped Lake Watch website by improving navigation, creating media sections, accelerated load time, resulting in nearly 27% increase in monthly users
- Developed a Claps WordPress plugin to like posts on blogs.ifas using inbuilt store for caching and persistent storage
- Effectively reduced search time on photos.ifas.ufl.edu by implementing feature to prioritize images based on dimensions

Application Development Associate, Accenture Solution's, Mumbai, India   **Nov '16 - May '18**
- Developed bash script to automate querying of SAP/Informatica messaging queues and email hourly reports, resulting into 35% reduction in Service Level Agreement (SLA) breaches
- Integrated and debugged IBM's remote message queue objects with local queues to reduce file transfer time by 3ms
- Collaborated with automation engineers and functional support team for application design in an agile environment

PROJECTS:

News AggreGATOR (Node.js, Ejs, Axios, HTML, Bootstrap) [Link]
- Developed a web app to curate news articles from hundreds of sources in a central location using NewsCatcher public API
- Features include sort by Best Match, Date, filter by topics, get news from past n days

LA City Crime Analysis (Node.js, Express.js, HTML5, JavaScript, CSS3, Chart.js, Oracle DB)
- Implemented a REST based Web app for analyzing crimes across the city of Los Angeles using data from data.lacity.org
- Optimized operational efficiency by performing normalization of 2 million records into multiple database tables

Multithreaded Air Traffic Control System (Java, Swing, JUnit)
- Implemented a Queue Depth based Load Balancer to manage Air Traffic Control (ATC) infrastructure using Concurrent Programming and Object-Oriented design principles in Java
- Live updates of the transition of Airplanes current states along with other details are rendered on a GUI

Stack Overflow dataset analysis (C++, XML)
- Analyzed more than 1GB of users and posts data collected from Stack Overflow to find the most active question on
- Reduced memory consumption by more than 900% from around 1Gb to 60mb

Pre-Market Stock Index futures (Python, Beautiful Soup, Pandas, SMTP)
- Wrote a web scraper to get the futures data for major indices from businessinsider website and scheduled daily emails
- Used Pandas to normalize, structure the data and to create pretty HTML tables

Automatic Text Summarization (PHP, CodeIgniter, JavaScript, HTML5, Bootstrap)
- Developed an Extractive Text Summarizer to generate a summary of text from the original text using Data Mining
- Implemented Simplified Lesk algorithm to determine the weights of each sentence, achieved results with up to 70% summarization

TECHNICAL SKILLS:

- **Programming: Java**, Python
- **Web Technologies:** HTML5, CSS3, Bootstrap, jQuery, Ajax, PHP, **JavaScript**, **Node.js, REST API**
- **Frameworks:** Spring Boot, Express.js, JUnit
- **Databases:** MySQL, **MS SQL Server, Neo4j**, **Arango DB NoSQL**
- **Tools:** JMeter, IntelliJ, **GIT,** Visual Studio, **Jenkins**, IBM WebSphere Message Queues (WMQ)