NAKSHATRA SHARMA

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SKILLS SUMMARY:

- Languages and Technologies: Java, C#, JavaScript, Python, Docker, Git, PostgreSQL, Elixir, CSS, HTML, MSSQL
- Libraries and Frameworks: .NET, Spring MVC, Angular, Phoenix, WPF, WCF, PRISM, Unity, LibGDX

EDUCATION:

Master of Science: Computer Science, GPA - 3.8 University of Florida - Gainesville, Florida, USA Graduation - 05/01/2018

Relevant Courses: Analysis of Algorithms, Advanced Data Structures, Networks Security, Distributed Systems, Principles of

Programming Languages

Bachelor of Engineering: Computer Science, GPA - 3.6

Graduation -05/01/2014

Panjab University - Chandigarh, India

Relevant Courses: Data Structures & Algorithms, Software Engineering, Object-Oriented Design

EXPERIENCE:

Software Development Intern

05/01/2017 - 08/17/2017

MicroSystems Engineering – Lake Oswego, Oregon, USA

- Formulated Full Stack of a Web Application in an **Agile Environment** to automate the data processing and verification process, helping engineers and doctors for efficient utilization of limited resources.
- Improved all the server endpoints using **WCF-RESTful**, resulting in 20% faster response between client and server.
- Improved the database query runtime by 30% using indexing and slashed the latency by 25% implementing cache
- Improved the testability and extensibility with MVC design pattern and Unity IOC for dependency injection
- Achieved concurrency in all web application tasks using Locking Mechanism for better performance.
- Developed and deployed an intermediate staging server on AWS for testing the application, before deploying the application to the production server, resulting in a Continuous Integration Continuous Development (CICD).
- Developed Docker images for infrastructure virtualization and application isolation.
- Implemented Pub-Sub Event aggregators for smooth communication between different application layers
- Technologies: C#, .NET MVC, JavaScript, MSSql, WCF Web API, Unity, Entity Framework, EC2, Docker, Git

Software Developer

06/25/2014 - 05/10/2016

Infosys Limited – Hyderabad, Telangana, India

- Developed a Web application on SharePoint 2010 to advertise the products via events, campaigns and subscriptions
- Improved the User interface by implementing 'Localization Algorithm' that boosted the application popularity by 23%.
- Implemented features like **reminder emails, OTP login** and verification system improving the user experience by 30%.
- Optimized the application solutions by 40% by writing test plans, deployment scripts and code reviews,
- Technologies: C#, AngularJS, SharePoint 2010, MSSQL, Email services, PowerShell scripting, Team Foundation Server

Software Developer Intern

01/25/2014 - 04/10/2014

Infosys Limited - Mysuru, Karnataka, India

- SRPING MVC based Web Application for a University with hierarchical Login features and departmental sub-divisions.
- Improved the user experience by 30% with features like 'Predictive Analysis' on large data sets and Floating login header
- Technologies: SPRING MVC, Java, MySQL, Java Server Pages, JavaScript, CSS

PROJECTS:

- Developed a **twitter** like web application on **Phoenix** framework with features such as user subscription, live tweet feeds, retweets and hashtags queries. Designed a robust engine to send tweets to multiple users concurrently using Elixir's multi-processing feature and improved the engine speed using in memory database. The application was stress tested with 100000 users. **(Phoenix, Elixir, JavaScript, jQuery, Web sockets, Html) –** December 2017
- Developed a **Compiler** for a small programming language with custom grammar, generating JAVA bytecode, which enabled the programming language to run on any platform with a JRE. (JAVA, ASM bytecode framework for code generation) December 2017
- Developed a scalable and distributed (multi-processed) **Bitcoins Miner** using **Elixir's actor model** architecture with maximum CPU utilization. The system reached the efficiency of up to 780% when run on an 8-core machine. **(Elixir, Visual Code)** September 2017
- Developed a web application for Room-mate search and rate. Conducted interviews with stakeholders to elicit functional and nonfunctional requirements and include the features accordingly. (Angular, Bootstrap, JAVA, RDBMS, VOLOERE) – November 2016
- Developed web crawlers for scraping the lifetime data of 500,000 toll-free numbers of different series to prove that toll free numbers can be used as reliable identifiers for Telephone-PKI. (Java EE, Selenium Libraries, Chrome Driver, JavaScript) May 2017
- Developed **Huffman Encoder and Decoder** for Data Compression and achieved a compression of 65%, Priority Queue Structure was used for generating Huffman Tree. (JAVA, Git) February 2017
- Developed a fun touch-based gesture **android game** using **\$P recognizer** and **Libgdx** library based on user's feedback to include the most intuitive gestures. It was rated 4/5 by over 400 users surveyed. **(Android, Libgdx, Android Studio)** April 2017