vaibhav kumar

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Objective

Seeking full-time opportunities in Software Engineering, starting in January 2020.

Education

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| ***Master of Science***, Computer Science, Syracuse University, Syracuse, USA, December 2019. | ***Bachelor of Engineering***, Information Science and Engineering, Visvesvaraya Technological University, India, June 2012 |

Academic Projects

**Micro Services |** Course: Distributed Objects**|** Skills: .Net Core, C#, ASP.NET Core MVC, Entity Framework Core, Docker, JavaScript, RabbitMQ, JSON Web Tokens, RESTful API

* Developed a distributed system of containerized and independently deployable microservices, working together to provide services for a team collaboration tool.

**Remote Package Analyzer |** Course: Software Modelling and Analysis**|** Skills: C#, WPF, WCF, .Net Framework

* Developed a scalable type-based dependency analysis tool that evaluates code files and packages for dependencies.
* The front end, developed in WPF, communicates with the server through an asynchronous message passing communication channel implemented using a blocking queue.
* Implemented Tarjan’s algorithm to identify strongly connected components in a directed graph of dependencies.

**Source Code Repository |**Course: Object-Oriented Design**|** Skills: C#, C++ (managed and unmanaged), WCF, WPF, XML, .Net Framework

* Developed Key-Value pair-based NoSQL database which provides capabilities such as check-in, check-out, browsing of source code files, version management, file persistence, acquisition and publication of source and document files

**Nucleus Message Passing** **|**Course: Principles of Operating System| Skills: LINUX, C, C++.

* Designed system nucleus to implement an interrupt response program using asynchronous message passing and system calls
* When extended with an existing operating system, system nucleus supports synchronization, coordination and multiprogramming

Relevant Experience

***Full Stack Developer, Syracuse University* (May 2019-Current)**

**Skills:** PHP, MySQL, ASP.Net Core. Entity Framework Core, C#, HTML5, CSS3, Bootstrap, IIS, Git, Model-View-Controller, JavaScript

* Developed a centralized system for collaboration among colleges at Syracuse University, saving over 200-man hours every week.
* Solved the challenge of migrating unstructured and out of sync spreadsheet data from different sources to a centralized RDBMS.

***Graduate Teaching Assistant, Internet Programming (graduate level), Syracuse University* (Jan 2019-May 2019)**

**Skills:** REST, ASP.Net Core. Entity Framework Core, C#, HTML5, CSS3, Bootstrap, IIS, Model-View-Controller, ECMAScript 6, React

* Worked as a Graduate Teaching Assistant for Dr. Jim Fawcett for *Internet Programming (CSE-686)*, a graduate-level course.
* Prepared course materials, gave lectures, organized and evaluated weekly labs and projects, held office hours for one-to-one help.

***Software Developer, Tata Consultancy Services, New Delhi, India* (Oct 2012-Feb 2016)**

**Skills:** C#, C++, Microsoft SQL Server, ASP.Net, ADO.Net, Entity Framework, HTML5, CSS3, Bootstrap, TFS, VSTS, Model-View-Controller, JavaScript, JSON, jQuery, XML, XSLT

***Business Domains***: Banking and financial services, logistics, petrochemical

* Led development of HSB-Bupa insurance portal for Hang Seng Bank, Hong Kong, ensuring timely and quality delivery of modules
* Developed HR management system and a web-based collaboration tool to bring together SABIC, Saudi Arabia and its associates
* Worked as a developer and module lead of two major modules of a very large-scale supply chain management system which optimized provisioning to procurement process time and efforts by 300 percent.
* Worked with the research and development team to develop reusable components that made the application more secure, efficient and economical by avoiding the purchase of any Commercial off-the Shelf (COTS) or any third-party products.
* Led development of the recruitment module and integration with other modules to deliver an e-recruitment system during the training program.

Skills and Interests

***Programming:*** C#, C++ (managed and unmanaged), C

***Web*:** HTML 5, ASP.NET Core MVC, JavaScript, jQuery, React.js, CSS3, Bootstrap, XML, PHP

***Database*:** Microsoft SQL Server, NoSQL, MySQL, T-SQL

***Misc.*:** Microsoft Azure, Entity Framework Core, Microservices, WCF, WPF, Unix Shell Scripting, Docker Containers, Object Oriented Design, Design Patterns, Distributed Systems, Analysis and Design of Algorithms

***Tools*:** Visual Studio, SQL Server Management Studio, Git, TFS, VSTS, PowerShell, PyCharm, Jupyter Notebook. MySQL Workbench, Azure DevOps, Adobe XD, IIS, Microsoft Office.

Awards, Recognitions, and Involvement

* Awarded with a 30% scholarship for the MS Computer Science program at Syracuse University, New York (2018-2019).
* Awarded with ILP Kudos, several “on the spot” awards as developer and module lead and best team while working for TCS.
* Obtained various awards while playing competitive cricket at different levels such as school, university, and senior division leagues.
* Led school and college teams for cricket and soccer.