JITENDRA SELVAM

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Education

Master of Science in Computer Science	Aug 2017 - May 2019
Indiana University, Bloomington	
Bachelor of Engineering	Aug 2012 - May 2016
Anna University, Chennai, India	

Work History

Developer - UITS, Indiana University
Oct 2017 - Present

C#, dotnet core, SharePoint, .NET MVC framework, ReactJS, WebAPI, OAuth, Identity Server, Auto Mapper, Git

- Develop Microservices as Backend for RESTful services to parse and process JSON requests for a transaction management system, part of the Indiana University's print.iu.edu website.
- Created unit and integration tests using *xUnit*.
- Created an OAuth authentication server using Identity Server.
- Implemented a purchase order application used by various campus departments to purchase IT requirements using Object relational mapping (ORM).

Software Developer Intern - UITS, Indiana University
June 2018 - Aug 2018

Entity Framework core 2.1, RabbitMQ, VueJS, Jenkins, Docker, Python, Splunk, PyTests

- Developed an API for managing print services - add printers, change departments, cost management used across 8 campuses of Indiana University by 130,000 Faculty,staff and students.
- Configured and maintained the microservice architecture using Jenkins for deploying docker containers.
- Developed several microservices using python using Functional programming paradigm along with unit tests.
- Setup Middleware request/response pipeline for authentication.
- Implemented load balancing mechanism for docker and Jenkins.

Associate Engineer - Unisys, Bangalore India
Jun 2016 - Jul 2017

.NET, Visual Studio, WPF, TortoiseSVN, WinForms, C++

- Developed network and operating system related components for the product Operation Sentinel.
- Redesigned a configuration box using Windows Presentation to eliminate Windows DPI scaling problem, also enhancing and simplifying the process of loading the server/ OS components.
- Awarded a Spot Award for eliminating the DPI problem for a client within the specified time.

Java Developer Intern - PasoNet Tech Chennai, India
Jun 2015 - Jan 2016

JAVA7, Eclipse, Excel, POI API, JExcel, Swing, SQL Server, Hibernate

- Implemented an automatic ticket transaction system using SQL and a custom rule based engine based on open sourced tools such as Apache POI and JExcel API's.
- Accelerated transaction processing speed for EasyBook.com from 8 hours/week to 15 minutes.

Projects

Burger Builder with React *(Personal)* - ReactJS, HTML5, CSS, JavaScript, Firebase, Axios

- Developed a burger builder project also compatible on mobile platform on Heroku.
- Utilized Google's firebase as backend to mimic order management system.

Kernel Programming in Xinu Operating System - C

- Implemented in memory file system for XINU with standard file system primitives. Devised a shared memory Inter-process Communication (IPC) in XINU using UDP to establish a network communication between XINU and virtual machines.

BatteryNotify Android Application *(Personal)* - Android SDK, JAVA, JGraphT API

- Created an android application to and keeps track of battery status Available on PlayStore

Music recommendation system *(Academic)* - JAVA, Python, shell, R

- Deployed a Hybrid filtering music recommendation system based on supervised learning.
- Decreased waiting time for suggestion using K -means algorithm on million song data set.

Skills

Programming Languages
C#, Java, Python, C++

Web Technologies
AJAX, HTML5, CSS3, Bootstrap, Javascript, ReactJS, VueJS, NodeJS, Swashbuckle, Swagger, REST, API, Firebase, webservices

Databases
Microsoft SQL Server, Oracle

Frameworks
Xunit, MOQ, NSubstitute, SpringBoot, ASP.NET Core, dotNet core 2.0/2.1, .NET 4.5, Entity FrameWork 2.0, AutoMapper

Others
Git, LeanKit, Docket, RabbitMQ, AWS, TortoiseSVN, Jenkins, TeamCity

Certification

ITIL® Foundation Certificate in IT Service Management ID: GR750317153JS

Data Science Associate (EMCDSA) ID: TNY4VZSR1JR4CVLQ

Relevant Courseworks

- Algorithms Design and Analysis
- Advanced Operating Systems
- System Protocols and Security
- Science Gateway Architecture
- Virtual Reality Programming
- Machine Learning
- Security for Networked Systems

Portfolio

jitendraselvam.github.io

Activities

- Participated in AT&T IoT Civic Hackathon, Indianapolis, IN (2017).
- An active member of data science association at Indiana University.
- Designed Website for the print , TechSelect teams and an order purchasing application at Indiana University.