

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 2016 - 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*.
- Configured authentication mechanism using Identity Server and OAuth.
- Implemented a purchase order application used by various campus departments to purchase IT requirements.

Software Developer Intern - UITS, Indiana University

June 2018 - Aug 2018

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

- 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 continuous deployment for the projects to initialize containers in docker following the micro service architecture.
- Implemented load balancing for logging traces to Splunk server.

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](https://www.easybook.com) from 8 hours/week to 15 minutes.

Projects

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

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

Kernal 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.

Battery Notify Android Application (Personal) - Android SDK, JAVA, JGraphT API

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

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

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C#, Java, Python, C++

Web Technologies

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AJAX, HTML5, CSS3, Bootstrap, Javascript, ReactJS, VueJS, NodeJS, Swashbuckle, Swagger, REST, API, Firebase, webservises

Databases

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Microsoft SQL Server, Oracle

Frameworks

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

Others

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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 and order purchasing team at Indiana University.