Aravindhan Venkituswamy

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Education

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Master of Science in Computer Science

Binghamton University, State University of New York, USA.

Bachelor of Engineering in Electronics and Communication

Anna University, Chennai, India.

JUN 2007 - MAY 2011

AUG 2016 - MAY 2018

Technical Skills

Languages C#, Java, C, HTML, CSS, JavaScript, Typescript

Databases MongoDB, SQL Server, Oracle DB

OS Linux, OSX, Windows

Tools Kubernetes, Docker, Cordova, Twilio, Postman, Flask, Swagger, SOAP UI

Frameworks Spring Boot, Node.js, Ionic, Angular, Bootstrap, .NET 4.5, ASP.NET MVC 5, JQurey

Work History & Projects

Mobile Developer

Intern

MoHelp App, Columbia, SC, USA

JUL 2017 - AUG 2017

- Completed mobile application development internship based on Ionic, Node.js, Angular, and Bootstrap.
- Developed geofencing, and location identification system based on Google Maps API.
- Designed and developed **Twilio** based SMS phone verification and messaging system.
- Implemented custom designed Responsive UI for iOS, Android, and web platforms.
- Utilized Node.js, angular, Mongo DB, Cordova, Sass CSS, Typescript and GitHub repository.

Software Engineer

4years

Tech Mahindra Limited, Chennai, India

JUL 2012 - MAY 2016

- Adopted Existing Business logic using **RESTful Web API**, which saves up to **70%** cost & efforts.
- Worked on MS Azure Cloud with VSTS for automatic deployment in the Agile-Scrum environment.
- Developed in lightweight MVC architecture, using concepts like LINQ, Razor syntax, Entity Framework.
 Utilized dev tools like Telerik UI, Postman, SOAP UI, TFS, Crystal Reports, Visual Studio, and SQL Server.
- Constructed the **core financial module** where more than 5 million transactions are made every month.
- Implemented the SEPA (Single European Payment System) for 8 different European Cultural Settings.
- Developed **dynamic XML file structures**, where a user can design their own XML file format structures.
- Improved performance of numerous SQL procedures and functions with indexing & query optimizations.
- Implemented & Utilized dynamic statements, SQL profiler, SSRS, SSDT, and handled SQL migrations.

Academic - Courses & Projects - Masters

AUG 2016 – MAY 2018

Advanced Cloud Computing

- Completed cloud-based application including data collection using various **Docker**-based microservices.
- Utilized Kubernetes (Google Cloud) for auto- deployment, load balancing, and scaling.
- Used **Spring-boot**, MongoDB, **flask**, **python**, and swagger to develop various microservices
- Implemented Open stack tools like **Keystone**, **Glance**, **Nova**, **Neutron**, **Swift**, **and Cinder**.

Data Mining

- Developed Project regarding time-series data trend prediction in e-commerce, using R-Language.
- Utilized backward propagation Neural network and ARIMA to find the accurate result in data prediction.

Operating System

- Done projects on Xv6 Operating System including paging, threading, and file system.
- Implemented various **scheduling algorithms** like FIFO, Round Robin, Lottery, and stride Scheduling. **Design Patterns, Data Algorithm, Database, Programming Languages**
- Implemented various design patterns like Observer, factory, state, Behavioral, and Composite patterns.
- Utilized Java (JDBC), Oracle DB, VM 2016 (Virtual Box), Eclipse and SQL developer in a project for DB course.
- Scored 100% in projects based on Java Recursive-Descent Parser, Scheme, Haskell, and Erlang.

Awards & Activities

- Bravo award, Pat on back & Letter of Appreciations are some of the recognition from Tech Mahindra.
- Activities include attending hackathons, event management, and hobbies like cooking & gaming.