Aravindhan Venkituswamy

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Education

Master of Science in Computer Science - 3.4/4   AUG 2016 – MAY 2018
Binghamton University, State University of New York, USA.

Bachelor of Engineering in Electronics and Communication   JUN 2007 – MAY 2011
Anna University, Chennai, India.

Technical Skills

Languages	C#, Java, C, Python, HTML5, JavaScript, CSS3
Databases	MongoDB, SQL Server, Oracle DB
OS	Linux, OSX, Windows
Tools	Kubernetes, Docker, Cordova, Twilio, Postman, Flask, Swagger, Razor Engine
Frameworks	Spring Boot, .NET 4.5, ASP.NET MVC 5, MEAN Stack, Ionic, AngularJs

Work History & Projects

Mobile Developer   Intern
moHelp App, Columbia, SC, USA   JUL 2017 – AUG 2017

- Completed mobile application development internship based on **Ionic** and **AngularJs**.
- Designed and developed **Twilio** based SMS phone verification system.
- Developed **geo** background **tracking**, location identification, and monitoring system.
- Implemented custom designed **Responsive UI** for **iOS**, **Android**, and web platforms.
- Utilized **node.js**, angular.js, **Mongo DB**, **Cordova**, and **Sass CSS**.

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 **sprint** based production environment.
- Implemented dynamic routing solution using **Attribute Routing**, so we can support all URI patterns.
- 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

Adv Cloud Computing
- Completed **cloud**-based application including data collection using various **Docker**-based **micro services**.
- Utilized **Kubernetes** (**Google Cloud**) for automatic deployment, load balancing, and scaling.
- Used **Spring-boot**, MongoDB, **flask**, **python** and swagger to develop various micro services
- Implemented Open stack tools like **keystone, glance, nova, neutron, swift, and cinder**.
- Worked on Open flow based **open V Switches**, **POX**, **OVS-controller, Open Day Light**.

Data Mining
- Developed Project regarding **time-series data trend prediction**, the application scenario in **e-commerce**.
- Utilized backward propagation **Neural network** and **ARIMA** to find 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) 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 & hobbies like cooking and gaming.