Aravindhan Venkituswamy

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Education

Master of Science in Computer Science   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, 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.