

# Aravindhan Venkituswamy

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## Education

Master of Science in Computer Science – 3.4 Binghamton University, State University of New York, USA.	Aug 2016 – Present
Bachelor of Engineering in Electronics and Communication Anna University, Chennai, India.	Jun 2007 – May 2011

## Technical Skills

Languages	Java, C#, C, HTML, CSS, JavaScript, Typescript
Frameworks	Node.js, Spring Boot, Angular, Bootstrap, Ionic, ASP.NET (MVC, Web API), JQuery
Tools	Kubernetes, Docker, Cordova, Twilio, Postman, Swagger, SOAP UI
Databases	MongoDB, SQL Server, Oracle DB
OS	Linux, OSX, Windows

## Work History & Projects

Mobile Developer MoHelp App, Columbia, SC, USA	Jul 2017 – Aug 2017 Intern
<ul style="list-style-type: none"><li>Completed mobile application development internship based on <b>Ionic, Node.js, Angular</b>, and <b>Bootstrap</b>.</li><li>Developed <b>geofencing</b>, and location identification system based on <b>Google Maps API</b>.</li><li>Designed and developed <b>Twilio</b> based SMS phone verification and messaging system.</li><li>Implemented custom designed Responsive UI for <b>iOS, Android</b>, and web platforms.</li><li>Utilized Node.js, Angular, <b>Mongo DB, Cordova, HTML5, Sassy CSS, Typescript, JSON</b>, and <b>GitHub</b> repository.</li></ul>	
Software Engineer Tech Mahindra Limited, Chennai, India	Jul 2012 – May 2016 Client: Plan International
<i>Plan systems web application</i> <ul style="list-style-type: none"><li>Involved from the scratch to build a web application in lightweight <b>MVC</b> architecture.</li><li>Provided <b>L4 support</b> acted as liaison between development team and the L3 client coordinator.</li><li>Adopted Existing Business logic using <b>RESTful Web API</b>, which saves up to 70% cost &amp; efforts.</li><li>Constructed the <b>core financial module</b> where more than 5 million transactions are made every month.</li><li>Implemented the <b>SEPA</b> (Single European Payment System) for 8 different European Cultural Settings.</li><li>Developed <b>dynamic XML file structures</b>, where a user can design their own XML file format structures.</li></ul>	
<i>Technologies &amp; Tools Utilized</i> <ul style="list-style-type: none"><li>Worked on MS <b>Azure Cloud</b> with <b>VSTS</b> for automatic deployment in the <b>Agile-Scrum</b> environment.</li><li>Utilized dev tools like Postman, SOAP UI, TFS, Telerik UI, Crystal Reports, Visual Studio, and SQL Server.</li></ul>	
<i>Database Management</i> <ul style="list-style-type: none"><li>Improved performance of numerous SQL procedures and functions with indexing &amp; <b>query optimizations</b>.</li><li>Implemented &amp; Utilized <b>dynamic statements</b>, SQL profiler, SSRS, SSDT, and handled SQL migrations.</li></ul>	

## Academic & Other Projects

<i>Task Management System (Firebase serverless web app)</i> <ul style="list-style-type: none"><li>Developed a server less application with <b>firebase, Angular, Bootstrap</b>, HTML, CSS, Typescript and SendGrid.</li><li>Utilized firebase products are authentication, cloud firestore, cloud storage, hosting and cloud functions.</li></ul>	
<i>Weather Prediction Systems (Advanced Cloud Computing)</i> <ul style="list-style-type: none"><li>Completed cloud-based application including data collection using various <b>Docker-based microservices</b>.</li><li>Utilized <b>Kubernetes (Google Cloud)</b> for auto- deployment, load balancing, and scaling.</li><li>Used <b>Java, Spring-boot</b>, MongoDB, and swagger to develop various microservices.</li></ul>	
<i>Data trend prediction (Data Mining)</i> <ul style="list-style-type: none"><li>Developed Project regarding <b>time-series data trend prediction</b> in e-commerce, using R-Language.</li><li>Utilized backward propagation Neural network and ARIMA to find the accurate result in data prediction.</li></ul>	
<i>Other Projects</i> <ul style="list-style-type: none"><li>Utilized <b>Java (JDBC), Oracle DB, VM 2016 (Virtual Box)</b>, Eclipse and SQL developer in a <b>project for DB course</b>.</li><li>Scored 100% in projects based on Java - <b>Recursive-Descent Parser</b>, Scheme, Haskell, and Erlang.</li><li>Implemented various <b>design patterns</b> like Observer, factory, state, Behavioral, and Composite patterns.</li><li>Done projects on <b>Xv6</b> Operating System including paging, threading, file system and scheduling algorithms.</li></ul>	