**ANIL KUMAR ARUMULLA**

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**PROFESSIONAL SUMMARY:**

* Seasoned Full-Stack developer with 10+ years of experience specializing in .Net Core, NodeJS, PHP, Angular, React, and Azure.
* Proven track record of delivering efficient, scalable web applications.
* Curious explorer of machine learning frontiers and harnessing the power of emerging technologies in the modern digital landscape
* Worked with 5 cross-functional teams to analyze potential solutions based on evolving client requirements.
* Designed and developed around restful API's services using .Net Core, Nodejs and PHP
* Proficient in React.js and related libraries (Redux, React Router, etc.).
* Hands-on experience on SOLID principles and implemented design patterns like Repository, Factory, Strategy, and Dependency Injection.
* Hands-on experience with cloud services like Azure and AWS
* Sound knowledge on Azure DevOps areas like creating build and release pipelines on azure and writing terraform scripts to manage resources on azure platform for .Net services.
* Strong knowledge version control tools like git | git commands and branch merging strategies
* Hands-on experience in writing unit tests, load tests and end-to-end tests using NUnit, jasmine, cypress and k6.
* Hands-on knowledge of containerization platforms like Docker and orchestration tools like Kubernetes are used to containerize the .net applications.
* Experience in working with Model View Controller (MVC), MVVM, LINQ, Entity Framework, WebAPI, Windows Communication Foundation (WCF), Windows Presentation Foundation (WPF), REST Web Service.
* Extensive experience in software development life cycle (SDLC) from requirements gathering to programming, testing and maintenance.
* Experience in web development with JavaScript, jQuery, Typescript, AJAX, JSON, CSS, Angular JS, HTML, HTML5 and DHTML.
* Exposure to DevOps practices and automation of software testing, delivery and infrastructure changes.
* Strong in Object Oriented Programming (OOPS) and development using C# on Windows and Web platforms.
* Hands-on experience in UI Design like Master Pages, Web Forms, Win Forms, User controls and programming in ASP.NET, C#, ADO.NET and Language Integrated Query (LINQ).
* Extensive design experience with web technologies like HTML, CSS, Bootstrap, JavaScript, jQuery, AJAX and Angular JS.
* Expertise in Angular JS controllers, directives, components, factory and service resources, routings, and events.
* Deployed back-end services to Azure cloud.
* Worked with .NET Server Controls, Web User Controls, Data Grid Web Control, and Form Validation Controls and created numerous Custom controls.
* Works on MVC Frameworks like Bootstrap, Angular, ReactJS, and Node.JS.
* Expertise in writing Constraints, T-SQL Queries, Indexes, Views, Stored Procedures, Cursors, Triggers, and User Defined Functions.
* Proficient in writing Technical and Functional test scripts. Experienced in test driven development using N-Unit Testing for the piecewise testing of the Applications.
* Expertise in designing CSS style sheets for different browsers and well aware of UML diagrams.
* Excellent analytical, communication & interpersonal skills.
* Providing measures for Azure cloud implementation that resulted in a significant cost reduction for the client.
* Strong knowledge in core .Net concepts like collections, multithreading, design patterns, serialization.
* Developed multi-tiered object-oriented system architectures utilizing Use cases, UML (Sequence, Activity and class diagrams).

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| **TECHNICAL SKILLS:**   |  |  | | --- | --- | | **Backend Technologies** | .Net Core, Nodejs and PHP | | **Front Technologies** | Angular, AngularJS, ReactJS and Micro Frontend (Lit Element) | | **Programming Languages** | C#, JavaScript, TypeScript PHP and Python | | **Frameworks** | .Net Core, .Net Framework, Laravel, NextJS and LoopbackJS | | **JavaScript Libraries** | ExpressJS, EJS, jQuery, Axios, Mongoose, | | **Testing Suites** | NUnit, Moq, Jasmine, Cypress and K6 | | **Web Technologies** | HTML, CSS, JavaScript, jQuery, Bootstrap, Flexbox, Angular Material | | **SQL** | MySQL, MsSQL and Oracle | | **NoSQL** | SQLite, Mongo DB, Redis and Cosmos Db | | **CI/CD Tools** | Azure Pipelines, Azure releases, and Terraforms. | | **Azure** | App Service, Application Insights, API Management service, Function App, Logic Apps, App Configuration, Key vault, Storage account, Service Bus, Batch account, Azure AD, Container Service, Kubernetes Service | | **AWS** | EC2, RDS, S3, ELB, SNS | | **Design Principles** | Repository Pattern, Factory Pattern, Strategy Pattern and Adapter Pattern | | **Web Servers** | Apache and Nginx | | **Version Control** | Git | | **CMS** | Strapi, WordPress and Joomla | | **Other** | OpenCart, Magento and CodeIgniter | |

**EDUCATION:**

* Bachelors in computer science & engineering at JNTU, Hyderabad, India

**PROFESSIONAL EXPERIENCE:**

**Jan 19 – Present** *Tech Lead (.Net Full Stack Engineer),* **HCL/Kantar,****Warren, NJ**

**Shoppix:** Shoppix is an app that pays users for snapping receipts12. It’s not the only app that will reward you for every receipt you snap, but it is one of the simplest to use. It is supported by backend APIs which are built on .Net core and all these microservices are hosted on Azure platform and integrated with various Azure resources.

* Designed and developed restful APIs for mobile app in .Net Core which are authenticated with JWT token.
* Integrated .Net core applications with Key vault, App config, Function App, Service bus, Storage account, Application insights, API management, Batch account.
* Implemented a solution that increased the performance of processing records from different microservices which were built in .net core by 83% using Azure batch accounts.
* Designed and developed API's in .net core 3.1 to maintain the various counts and thresholds of the users in Azure Table Storage which are consumed by frontend angular application.
* Created a custom middleware .net application which sets the custom message as response for the web page whenever there is unhandled exception thrown for any API request.
* Created a azure function app which is triggered by a message in service bus queue to store the data payload in azure storage account and database.
* Created azure logic apps to start and stop the azure Kubernetes service in non-working hours for non-prod environments to save the cost of infrastructure on azure portal.
* Created Microsoft AD authentication at azure app service level to avoid the security flaw of storing the secret keys in cookies before authentication of application which was reported by pen test team.
* Created a wrapper class around azure service bus to send the messages to queues and topics.
* Integrated the azure key vault in .net applications by registering the key vault configuration in Configure Service method of startup class to store the sensitive data.
* Integrated azure app config in .net applications by using terraform scripts to store the non-sensitive data.
* Built and managed back-office tool in Angular.js which is integrated with backend API’s written in .Net core.
* Migrated the entire code base of back-office portal from Angular.js to Angular 11 and implemented authentication system which uses new protocol called MSAL using Microsoft AD on azure portal.
* Created a Microsoft AD apps on azure portal to validate the http requests from angular to .net backend service.
* Created request interceptor in angular to add authentication and country code headers to every API request which is validated at Azure API Management service, later the request is passed on to .Net services.
* Integrated end to end testing automation tool called Cypress in angular application and created a necessary script to mock the login part of the application.
* Build multi layered components which are added and deleted dynamically based on the data from backend .net services for a reporting tool which gathers the information of surveys.
* Crafted a resilient application to seamlessly manage operations that were disrupted by a third-party entity amidst the challenging circumstances of the pandemic crisis.
* Designed and implemented loading testing scripts using K6 tool to monitor the performance of .net APIs in various microservices services.
* Designed and developed APIs in node.js using express.js library which connects to email accounts users with their consent to parse the inbox for latest shopping e-receipts.
* Crafted a wrapper class around cosmos DB to manage data on cosmos DB for various .net microservices.
* Designed and implemented the internationalization of web application to render the content of the pages in different languages dynamically based on the country it has been opened using i18n package in node.js.
* Created alerts on azure application insights and azure service bus to send messages and emails to support team whenever there is spike in exceptions and dead letter counts of service bus.
* Wrote KQL scripts to filter the logs of application insights based on date range and various other parameters to detect the anomalies of .net applications.
* Created azure dashboard metrics to monitor the messages counts in various queues and exception counts in azure application insights with different date range filters.
* Designed the transition of static cloud environment into the dynamic environment using terraform script.
* Created a wrapper class around azure storage table to manage the data for .net applications.
* Refactored Azure DevOps CI/CD build and release pipelines for 9 microservices using yaml templates.
* Designed and developed a common infrastructure repository to manage the azure resources which are common for all the microservices using terraform scripts.
* Provided a solution to migrate the documents from azure cosmos db to azure storage account as blobs in container using azure data factory.
* Fine-tuned the CPU and memory parameters of HPA (horizontal pod autoscaling) from Kubernetes service to increase the performance of the .net application.
* Migrated the Azure Kubernetes service from available set to scale set configuration to dynamically manage the addition and deletion of nodes in AKS based on the network traffic.
* Provided a solution to extract the text from a receipt using Form Recognizer from Azure cognitive services and build the API’s in .net around this service for receipt transcription.
* Proposed a solution to manage high traffic requests using HPA concepts in azure Kubernetes services.
* Provided a solution to use headless CMS for a website to decrease the dependency on developers.

**Environment:** .Net, .Net Core, Azure, MongoDB, Azure Function App, Azure API Management, Web Services, Azure Batch Accounts Kubernetes, Azure Logic Apps, Docker, Microsoft AD, Azure Key Vault, Azure App Config, NodeJS, REST, Angular, Cypress, K6, Azure Data Factory Typescript, Junit, HTML, Microservices, CSS, JavaScript, jQuery, Python.

**Jan 15 – Dec 18** *Senior .Net Full Stack Engineer,* **Meltag, Hyderabad, India**

**Meltag:** Meltag is a digital self-service platform that enables businesses to deliver simple self-service across mobile marketing, customer support, and marketing automation functions. It’s designed to improve the overall functionality and user experience of these services. The platform is known for its efficiency and effectiveness in managing customer interactions.

* Designed and developed a highly dynamic API's using strategy pattern in .Net and Asp.Net.
* Designed a database schema for both relational and nonrelational data models.
* Build aggregator rewards platform to make mobile recharge from different vendors using .Net and MS SQL
* Effectively worked on Technologies like PHP, Laravel, Node.js, .Net, Angular and MongoDB, HTML, CSS, Angular, PHP for the web portal, and .Net for the biometric plugin.
* Managing a team of 4 members to create an application system analysis based on client requirements.
* Design, architect and supervise the implementation functionality of company's new web application development.
* Designed and developed responsive SPA web application the UI side of the application using AngularJS framework along with HTML5, SCSS, Bootstrap 4, Type Script, Java Script and RxJS
* Designed and developed a full-stack website based on Node.js, ReactJS, Next.JS, Vue.JS, Word press, PHP and Slim Framework.
* Used ReactJS for implementing the open-source JavaScript framework for building user interfaces.
* Experience and exposure to build Angular 6 and NodeJS applications from scratch.
* Worked on AngularJS events distribution and parent chain for parent-child component communication.
* Manipulated DOM, handled events and applied animation effects with AngularJS.
* Worked on multiple components for different course element players and quiz question players using ReactJS and Redux.
* I worked extensively on developing applications using Azure.
* Used Windows Azure to deploy the application on cloud and manage the session.
* Also used Azure for Scaling and checking reliability of the applications which were developed during the project.
* Worked with ReactJS forms, Validations, Modules, Components, directives, Controllers, and HTTP Requests.
* Responsible for creating efficient design and developing User Interaction screens using HTML, CSS3, Bootstrap, JavaScript, Angular 6 & 7 and Node JS.
* Used Angular 4 component router for navigation. Worked with Angular 4 directives, components, pipes, and injectable.
* Programmed in Angular 4 to upload (post) files/images to the AWS S3 browser from the Front-end by installing NPM package of AWS-SDK.
* Manipulated DOM, handled events and applied animation effects with ReactJS.
* Involved in the development of services with Angular 4 injectable property, to make the service available for dependency injection when creating components.
* Performed Verification and validation process for the code written by making use of Jasmine and Karma JavaScript testing framework by testing across various scenarios of the Angular 4.0 applications.
* Participate in setting up MongoDB database using replication.
* Performance monitoring of MongoDB through mongo shell proactively to prevent any potential performance degradation.
* Developed UI components using Angular 8 dependency injection, models, data binding and controllers.
* Implemented Redux store for state management of the application.
* Designed Frontend within object-oriented JavaScript Framework like Node.js and Ext.js
* Design, architect and supervise the implementation functionality of company's new web application development.
* Designed and developed responsive SPA web application the UI side of the application using AngularJS framework along with HTML5, SCSS, Bootstrap 4, Type Script, Java Script and RxJS
* Designed and developed a full-stack website based on Node.js, ReactJS, Next.JS, Vue.JS, Word press, PHP and Slim Framework.
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* Also used Azure for Scaling and checking reliability of the applications which were developed during the project.
* Worked with ReactJS forms, Validations, Modules, Components, directives, Controllers, and HTTP Requests.
* Responsible for creating efficient design and developing User Interaction screens using HTML, CSS3, Bootstrap, JavaScript, Angular 6 & 7 and Node JS.
* Reliability and Scalability of the Salesforce Cloud
* Specialize in web application development using Angular and VueJS.
* Implemented React.js to create a dynamically changing value.
* Setup and build GCP infrastructure’s various resources GCE, Cloud Storage, IAM, Firewall’s using Terraform.
* Involved in developing a Single-Page Application using Angular 8, and RESTful Services.
* Coding, Development, migration, and implementation of .Net Core 3.1, .Net 6 applications
* Created Microservices API projects in .Net 6.0 and .Net Core 3.1 for all different modules in MP2 ERP.
* Implementing and maintaining the reusable components in ReactJS.

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**May 14 – Dec 14** *.Net Developer,* **OM SOFTWARE PVT. LTD, Hyderabad, India**

* Build a shopping cart application where e-commerce functionalities are implemented using Asp.Net.
* Developed a tool which creates multiple surveys to collect the leads and share the leads with their customers by creating an outbound live feed.
* Designed and developed APIs for a mobile app where users can register and get information about colleges or universities.
* Involved in the development of services with Angular 4 injectable property, to make the service available for dependency injection when creating components.
* Participate in setting up MongoDB database using replication.
* Performance monitoring of MongoDB through mongo shell proactively to prevent any potential performance degradation.
* Developed UI components using Angular 8 dependency injection, models, data binding and controllers.
* Implemented Redux store for state management of the application.
* Designed Frontend within object-oriented JavaScript Framework like Node.js and Ext.js
* Designed and developed Web Pages using ASP.NET, VB.Net, C#.NET, HTML, JavaScript, Angular JS, CSS, and server controls.
* Worked in Agile Methodology (Scrum) to meet timelines with quality deliverables.
* Maintained uniformity among all web pages in GUI and designed Master Pages and themes.
* Security features were provided using Cookies and Session ID so that unauthorized access could be denied.
* Used various server controls like Multi View and Grid View with extensive data binding to display, page and sort multiple records.
* Developed Web Forms for User Interfaces using ASP.NET and VB.NET using Server Controls, HTML Controls and User Controls.
* Created and deployed XML Web Services (WCF) using ASP.NET and C#, used them to generate the proxy class files based on the web services and consumed in web application.
* Used Cascading Style Sheets (CSS) to maintain design consistency across all web forms.
* Developed WCF Services, defining Endpoints, Data Contracts, Message Contracts, Bindings, and Transaction management in service layer and Hosting WCF services.
* Established communication between different applications running on same/different platforms using WCF.
* Used Validation Controls for corresponding validations required for business logic in Web Forms.
* Worked and deployed WCF Services using ASP.NET and C#.Net.
* Extensively used ASP.Net MVC architecture for the Web application design to have the application layers loosely coupled.
* Programmed ADO.NET for communication between application and database, used extensively Grid views, Data Set, Data Table and Data Adapter to render reports.
* Effectively implemented ASP.NET security infrastructure for authenticating and authorizing user access as well as performing other security related tasks.
* Developed new Windows Service in C# to process XML's from MSMQ and inserts them along with the extracted data into Database after validation.
* Developed new Windows Service in C# to process XML's from MSMQ, do validations and build a request to be dropped into IBM WebSphere MQ to send to First Data in real time ODS call.
* Developed parameterized SQL queries and stored procedures to query database tables in T-SQL.
* Created Views by applying complex queries on multiple tables to create the virtual tables and implemented Cursors in Stored Procedures using SQL Server 2012, Implemented Joins in Stored Procedures to get the desired data by joining multiple tables.
* Enhanced user experience by designing new web features using MVC Framework like Backbone.js.
* Used Repository Pattern for data persistency and easy management of data flow to and from the database.
* Involved in testing like Unit test, Integration test, Acceptance test and Regression testing using NUnit and responsible for writing test scripts and scenarios.
* Created Global. Sax file for error handling and error logging.
* Responsible for testing, fixing the bugs and troubleshooting technical problems.

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**Nov 13 – May 14 .***Net Developer,* **Gopal Systems Pvt Ltd, Hyderabad, India**

* Designed and developed an end-to-end application to trace the assets using Asp.Net and Bootstrap themes.
* Introduced the concept of responsiveness to the team to convert the existing websites which were built on .Net into all devices adaptable using bootstrap and normalization libraries.
* Adhered to the maintenance of real estate applications built on .Net CMS.
* Involved in the complete Software Development Life Cycle (SDLC) including Analysis, Design, Implementation, Testing, and Maintenance.
* Involved in gathering requirements from end users as well as scope changes.
* Collect and analyze requirements from the clients to design suitable software for them.
* Built on a custom framework using C# and SQL Server 2005.
* Developed the Use case diagram, Activity diagram during the requirement-gathering phase.
* Program client side and server-side validations using JavaScript.
* Implemented Business logic using C#.
* Worked on View State to maintain data between the pages of the application.
* Enhanced user experience by designing new web features using MVC Framework like Backbone.js.
* Involved in communicating with the clients, gathering requirements for the development of pre-processing logic of Information Origination module, Escalation Logic and other web and business tier components.
* Extensively used web technologies like ASP.NET, C#, JavaScript, XML and HTML in designing and developing web projects.
* Made full use of .NET’s object-oriented features (C#), event handling, error handling security feature.
* Created User Control to make application code reusable and to give the same look and feel to the application.
* Wrote a class library for Database Access layer using C# and ADO.NET.
* Identify and create indexes and stored procedures in SQL Server.
* Developed client modules for retrieving, inserting and updating records from the database.
* JavaScript client-side validations were done for ASP.NET Web Applications.
* Designed the database and created tables, stored procedures and views using SQL Server 2005.
* Directly accountable for various aspects of product design including assessment, coding, testing, and optimization.
* Involved in code review and performance improvement as well as documentation.
* Extensively working with Quality Assurance team to fix all the issues to meet the deadlines of product push.

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**Nov 12 – Oct 13** *Web Developer,* **Radicore, Hyderabad, India**

**Project Description:**

* Build blogging website using HTML, CSS, JavaScript, and jQuery.
* Build an e-commerce shopping site for dry fruit sellers using OpenCart tool.
* Developed a database explorer tool for internal projects using CodeIgniter framework.
* Build a WordPress plugin and chrome extension using JavaScript and php.
* Design and develop web site (GUI) Screens using ASP.NET, C#, User controls, JavaScript and Data Controls.
* Used validation techniques for User Input Validations.
* Created Role Based security levels for Windows Forms Authorization.
* Developed generic Data Access Layer for data access and manipulation on the SQL Server using C# and extensive use of ADO.NET.
* Created and managed new database objects including tables, indexes, triggers, User-defined functions.
* Used JavaScript for client-side scripting.
* Used XAML, Kendo UI HTML5, backbone JS, Angular JS, Bootstrap frame works and Plugins for the front-end development, REST Easy, MVVM to the Rescue models.
* Used ADO.Net to access and modify data from SQL Server 2005 database.
* Prepared Test cases provided technical documentation.

**Environment**: .Net, .Net Core, Azure, MongoDB, Azure Function App, Azure API Management, Web Services, Azure Batch Accounts Kubernetes, Azure Logic Apps, Docker, Microsoft AD, Azure Key Vault, Azure App Config, NodeJS, REST, Angular, Cypress, K6, Azure Data Factory Typescript, Junit, HTML, Microservices, CSS, JavaScript, jQuery, Python.