Shishir Roy

Senior Software Engineer

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🎂 June 16, 1988

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SKILLS

Programming languages

`C#` `Java` `Objective-c` `Swift`

Frontend Web Development

`HTML` `CSS` `JavaScript` `React`
`Angular` `Typescript`
`Material Design` `jQuery`
`Bootstrap`
`Google Chrome Developer Tools`
`MUI React library` `Kendo Chart`

Backend Development

`ASP.Net Core` `Node.js`
`AWS Lambda, S3, Cognito, SNS, Amplify, Cloudformation, CloudFront, CloudWatch, API Gateway`

Mobile App Platform

`iOS` `Android`
`Universal Windows Platform (UWP)`

Mobile App Framework

`Xamarin Native` `Xamarin Forms`
`React Native` `Ionic`
`Apache Cordova` `Titanium SDK`

Database

`SQLServer` `SQLite` `DynamoDB`
`Google Bigquery`

Testing Framework

`nUnit` `MSTest`

Build/DevOps tools

`Git` `Azure DevOps (old TFS)`
`CircleCI` `Fastlane`
`Apple TestFlight`
`Google Internal Test` `Apple Store`
`Google Play Console`
`Microsoft Store`
`Scaled Agile Framework (SAFe 4.0)`
`NuGet package` `npm tools`
`CocoaPods` `Gradle`

Code analysis tool

`FXCopAnalyzers`
`StyleCopAnalyzers` `ESLint`

IDE

`VSCode` `Visual Studio 2022`
`Xcode 14` `Android Studio`

As a Software Engineer with over 11 years of experience, I have a proven track record of developing innovative software solutions that enhance business productivity. My expertise spans the entire software development lifecycle, from concept to delivery, and I have a strong command of data structures, algorithms, and object-oriented programming principles. I consistently strive for quality and continuous improvement in my work, staying up-to-date with the latest development methodologies, tools, and technologies to drive innovation and efficiency. I am enthusiastic about applying my skills and experience to a dynamic team and making valuable contributions.

WORK EXPERIENCE

Gethai (August 01, 2022 - March 03, 2023)
Full Stack Developer

hai - smart spa-shower system
Mobile development

- Developing and maintaining mobile applications using React Native, reducing development time by 20% by implementing reusable components and optimizing application performance.
- Building cross-platform applications that work on both iOS and Android devices.
- Collaborating with designers to create a seamless user experience and responsive design.
- Developed and implemented core features, such as Onboarding what's new, in-app messaging, Support Multi-Showerhead Management, enhanced trends chart, Bluetooth API integration for data sync, Customize LED alerts, Firebase analytics for capturing events, reusable UI component, QRCode sharing using Dynamic links, customize app navigation using react navigation, integrated deep linking to handle incoming links etc.
- Integrated third-party libraries and APIs, such as react navigation, shopify, aws amplify, aws cognito-identity, victory chart, reanimated, refiner survey etc.
- Troubleshooting and debugging issues that arise during development and after deployment.

Front-end development

- Designed and developed a responsive admin portal to manages the paired shower devices for internal and external users using react, mui library.
- Implemented responsive design techniques to optimize user experience on various devices like desktop and mobile browser.
- Some of the core feature integrated like generate Qrcode for verification, display list of paired devices with metadata, unpair and reset or paired devices, dynamic link for mobile browser etc.
- Integrated third-party libraries and APIs, aws amplify, aws cognito-identity, victory chart, react dom router, mui datatable, mui etc.

Back-end

- Design and develop APIs using AWS Lambda, API Gateway, Amazon Cognito, Amazon CloudFront, to enable seamless communication between front-end and back-end systems.
- Design and implement scalable, fault-tolerant, and highly available AWS architectures using Simple Storage Service and DynamoDB.
- Troubleshoot AWS systems to identify and resolve issues using Amazon CloudWatch.
- Automate infrastructure provisioning, deployment, and configuration using tools like AWS CloudFormation to reduce manual work and ensure consistency.

Aveva (December 10, 2012 - August 05, 2022)
R&D Senior Member of Technical Staff

Mobile Operator 2020
Mobile development

- Experienced Xamarin developer with over 8 years of experience in developing, testing, and maintaining mobile applications for iOS, Android and UWP. Skilled in C# programming language, Xamarin Forms, and native iOS, Android and UWP development.
- Developed a Asynchronous C#-JS data binding bridge that uses patented technology (Patent No. US10394627B2) for support two-way binding in a multi-platform environment, such as with Xamarin-based hybrid multi-platform apps, in which the front-end and the C# layer are implemented on different frameworks.
- Experienced Angular developer with over 5 years of experience in developing, testing, and maintaining web applications using the Angular framework. Skilled in TypeScript programming language, HTML, Javascript and CSS.
- Successfully migrated a legacy system from AngularJS to Angular 8, resulting in improved performance and enhanced user experience.
- Strong knowledge of mobile application architecture and design patterns. Proficient in using Visual Studio and other development tools to build high-quality mobile applications.
- Familiarity with Agile development methodologies and experience working in a continuous integration and delivery (CI/CD) environment
- Strong problem-solving skills and ability to quickly learn new technologies and programming languages.

Front-end development

- Designed and developed a responsive web portal for designing task so that it can consume in mobile apps.
- Developed reusable components using Material Design that can be utilized by multiple team members across various projects.
- Experience with testing frameworks like Jasmine or Karma.

Back-end

- Experienced .NET Core REST API developer with over 2 years of experience in developing, testing, and maintaining web services using the .NET Core framework.
- Proficient in using Microsoft SQL Server and other database management systems to build scalable and reliable web services.
- Familiarity with containerization technologies like Docker and Kubernetes.

AVEVA Mobile Maintenance V9.2
Mobile development

- Developing, testing, and maintaining mobile applications using Titanium SDK framework to create native mobile application in iOS, Android and UWP.
- Successfully upgraded a legacy system from Titanium to the latest Titanium SDK, resulting in improved performance and a better user experience.
- Published updated version of a mobile app to the App Store and Google Play Store, incorporating customer feedback and suggestions for enhancement.

Back-end

- Developed and managed web services using the asp.net framework.
- Effectively address customer issues and provide timely solutions, resulting in increased customer satisfaction and retention.

Work Tasks Pro
Mobile development

- Able to used patented technology (Patent No. US10394627B2) for creating an asynchronous C#-JS data binding bridge that supports two-way binding in a multi-platform environment. This technology allowed for seamless data exchange between C# and JS, improving the performance and scalability of the system. By utilizing my expertise in both C# and JS, I was able to develop a robust and efficient solution that addressed the needs of a complex multi-platform system.
- Developed a responsive user interface design using Angular framework, resulting in improved user experience across multiple devices and platforms. Utilized best practices in front-end development including HTML5, CSS3, and JavaScript to ensure consistent and visually appealing user interface.

Infostretch Solutions Pvt. Ltd. (March 11, 2011 - December 05, 2012)
Software Engineer

As a mobile app developer for my first company, I gained valuable experience in developing high-quality and user-friendly mobile applications for both iOS and Android platforms. My skills in programming languages such as Objective-c and Java, as well as experience with various mobile app development tools and frameworks such as Android Studio and Xcode.

EDUCATION

Sikkim Manipal University (January 01, 2012 - January 01, 2014)
Master's Degree, Operation Research Management

Sunbeam Institute of Technology (August 01, 2010 - February 28, 2011)
Diploma in Wireless and Mobile Computing, Mobile Technligy

Guru Ghasidas Vishwavidyalaya (June 01, 2006 - June 30, 2010)
Bachelor of Engineering, Computer Science

PATENT

Asynchronous C#-JS data binding bridge (July 04, 2019 - Present)
US10394627B2

Data binding in applications (also referred to as "apps") involve automatic synchronization of data between model and view components. When data in the model changes, the view reflects the change; and when data in the view changes, the model is updated as well in an asynchronous fashion. This process occurs immediately and automatically, which ensures that the model and the view are updated at all times.

🔗 https://patents.google.com/patent/US10394627B2/en