

BISWARANJAN ROUT

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SENIOR SOFTWARE ENGINEER – FULL STACK

Web development engineer with **8 years of experience**, with exposure to several technology stacks and a strong appreciation of design and user experience.

PROFILE

- **Web Development** with pixel perfect web pages primarily on the **MERN Stack**.
- Exposure to next generation JavaScript – **React, Angular, jQuery, Node.js, ES6 & TypeScript**.
- Exposure to building scalable and fast user interfaces using **ReactJS** and **Redux**.
- Experience with working with static site generators like **Gatsby**.
- Exposure to **Agile Scrum model** for software development.
- Experience in responsive single page application development using **HTML5, CSS3, Bootstrap & jQuery**.
- Knowledge of CSS pre-processors like **LESS & SASS**.
- Knowledge of JavaScript unit testing frameworks like **Jest & Enzyme**.
- Proficiency in building **RESTful APIs & web applications** using **ExpressJS, EJS & ASP.Net WebAPI**.
- Exposure to database design, procedures/functions for both **relational & NoSQL** databases.
- Experience in developing data persistence using **MongoDB & SQL Server**.
- Knowledge of **API testing** using **Postman & cURL**.
- Knowledge of cloud platforms like **AWS, Digital Ocean, Google Firebase & Azure**.
- Basic knowledge of building **chatbots** using **Google Dialogflow**.
- Basic knowledge of developing **iOS** and **Android** apps using **React Native**.

EXPERIENCE

Senior Software Engineer, NTUC Enterprise, Singapore, June 2019 - Present

Staff Engineer, Sandisk India DDC, Bangalore – India, Sep 2018 – June 2019

Senior Analyst Programmer, Xceedance Infotech, Bangalore – India, Nov 2016 – Sep 2018

Senior Software Engineer, Emids Technologies, Bangalore – India, Feb 2016 – August 2016

Senior Systems Engineer, Infosys Limited, Hyderabad – India, Oct 2011 – Jan 2016

EDUCATION

Bachelor of Technology: Biju Patnaik University of Technology, India, 2007-11

Specialization: Computer Science & Engineering

TECHNICAL SKILLS

Programming	JavaScript – ES5, ES6, NodeJS, TypeScript, C#, HTML5, CSS3, LESS, SASS
Databases	MongoDB, Mongoose, SQL Server 2008/12/14
Frameworks / Libs	React.js, Redux, Gatsby, Angular, Express.js, ASP.NET, jQuery, Bootstrap
IDE	Sublime Text, Visual Studio Code, Atom, PyCharm
Tools	Jira, Bitbucket, Confluence, Postman, MS TFS, Git, Jenkins, Babel, cURL, NPM, Yarn
Verticals	Insurance, Education, Healthcare, Energy & Utilities
Others	Font Awesome, Material UI, Jest, Enzyme, webpack, pm2, moment.js

KEY PROJECTS

Project # 1: React Static Website with Control Panel

Building a user-facing static website generator framework using **Gatsby & React.js** for a chain of training institutes across Singapore. The website is a responsive one designed from scratch using custom HTML elements and is pixel perfect on all devices and orientations. There is an admin panel built using Material UI and react that allows the customer to make changes to the website contents, create new pages etc. without any knowledge of programming.

Environment: React, Gatsby, Redux, HTML, CSS, Bootstrap, SASS, Material UI

Responsibilities:

- Create static HTML pages from mockups built by the UX team and test on several device & orientations.
- Using **Gatsby** to consume data from REST API & generate a highly configurable static website.
- Using material UI to create an admin panel for the website for end users to manage the website.
- Use of Gatsby plugins to generate responsive & optimized images for display on the website for a faster & smoother loading.

Project # 2: Wings Suite – Internal tool for storage device management & validation

Wings suite is an internal-use only tool for automation of processes related to firmware management and testing on storage devices. It is a one-stop solution to setup and recreate validation environment, execute device management operations, and to perform automated failure analysis including features like perform firmware management operations, executes tests, diagnostic logs (collect, decode, visualize), create and execute test cases. Its target users include firmware developers, firmware validation engineers and failure analysis engineers.

Environment: React 16.x, Redux, HTML, CSS, Bootstrap, SASS, Python 2.7, Flask

Responsibilities:

- Lead the UI design team to create mockups from scratch followed by end to end development of features.
- Architect a scalable UI development model for React.js with central state management using Redux.
- Consuming REST APIs from the backend flask server which interacts directly with storage devices.
- Writing unit tests for react components using Jest and Enzyme.

Project # 3: XInsure – A SAAS based software product

XInsure is a SAAS based core business insurance product for insurance companies, brokers and re-insurers. It is a comprehensive software suite that has several modules like Rule Engine, User Management, Party Management, Question Engine etc. It is an end-to-end, yet modular, core policy administration suite for the life insurance, annuities, savings, pension and medical markets.

Environment: NodeJS, Express, MongoDB, Mongoose, React, Redux, HTML, CSS, Bootstrap, LESS

Responsibilities:

- Design and development of the insurance rule engine and its backend components.
- Create React components and services for performing CRUD operations.
- Create RESTful API using NodeJS & ExpressJS.

Project # 4: Installment Billing (IB) Portal for a major Insurance company

The IB portal is a web portal for customer of a significant Insurance company. It allows customers to pay insurance premium in EMI. This portal can be accessed both by customers and brokers to update customer billing and contact details, upgrade or renew their policy online, cancel their policy, create claim requests etc. The portal also allows generation of several kinds of reports like Broker Fee report, Notifications report etc.

Environment: Angular 2, HTML5, CSS3, LESS, ASP.Net WebAPI

Responsibilities:

- Co-ordinate with UX team to write HTML code for the web portal.
- Write Angular services for the portal to consume ASP.Net WebAPI end points.
- Write unit tests in Jasmine & Karma.
- Configure a continuous deployment environment on Jenkins.

Project # 5: Analytics & CRM System UI for a major Insurance company

This is a CRM (Customer Relationship Management) and Analytics system used to manage and analyze customer interactions with the goal of improving business relationships with customers. Customers include – Brokers, Insured Companies and its employees. It consists of a single page application which provides CRUD & report generation functionality for several entities related to the insurance company like Brokers, Insureds, Underwriters, Contacts, Customer Groups, Target Accounts, Administrators. The application uses AngularJS to consume a ASP.Net based REST API.

Environment: AngularJS 1.x, HTML5, CSS3, LESS, ASP.Net WebAPI

Responsibilities:

- Co-ordinate with UX team to write HTML code for the web portal.
- Write Angular services for the portal.

Project # 6: Test Data Management (TDM) System for a major Healthcare company

The client is one of the United States' largest hospital revenue cycle management companies and sells products and other finance-related services to the healthcare industry. The Test Data Management Solution would a Web-based application that would be launched in collaboration with Data Recon or as a standalone web application. The scope of the Test Data Management application has been identified primarily for the following scenarios – Generation of Obfuscated Test data & Generation of data needed for test scenarios.

Environment: C#, SQL Server 2012, ADO.Net, ASP.Net MVC

Responsibilities:

- Actively involved in solution design and database architecture design.
- Writing Stored Procedures & User-defined functions on SQL Server 2012.
- Writing business logic & models to be consumed by the MVC app.
- UI design & Unit testing for developed modules.
- Coordinating with QA team for end-to-end testing of developed modules & procedures.