Guhaprasaanth Nandagopal

+1(304) 751-5577 | guhan.delta@gmail.com | Greensboro, NC

Personal Portfolio: https://guhaprasaanth.netlify.app/
https://www.linkedin.com/in/guhaprasaanthnandagopal/
https://www.github.com/guhandelta | **Skype:** guhan.delta

Summary:

- Overall 7 years of experience in web development with user interface design, development, and analysis with extensive experience in the full lifecycle of the software design process.
- Extensive experience in designing professional UI web applications using major front-end technologies like HTML5, CSS3, JavaScript ES6, ReactJS, Jasmine, Bootstrap, SASS/SCSS, NextJS Gatsby JS, TypeScript, Redux and Angular JS/4.
- Experienced in UI Design and Development using HTML5, CSS3, JavaScript, jQuery, Bootstrap and AJAX that follows W3C Web standards successfully managing all facets of application development.
- Experience in SAAS and LESS scripting languages they are interpreted or compiled into Cascading style sheets.
- Strong experience with Cross Browser Compatibility issues and Optimization for the web, including CSS.
- Designed web applications and web contents utilizing various Search Engine Optimization(SEO) techniques.
- Experience on developing applications MERN (MySQL/Mongo DB, Express, React, Node) Stack.
- Developed websites Restaurant and Coffee Shops, with a Payment gateway using GatsbyJS
- Good Knowledge in Laravel, Code Igniter, OOPS, PHP, MySQL, JQuery, AJAX, HTML, CSS..
- Experience Cloud Computing infrastructure such as Amazon AWS, IBM Bluemix.
- Used Python and Django to interface with the ReactJS UI to develop robust web applications.
- Implemented Unit Testing using Jasmine and Integration testing during the projects.
- Experience in Developing high performance application servers using Node JS and Python Flask Frameworks
- Extensive experience in using Node JS in making the server-side automations.
- Experience in using Version Control Systems like Github.
- Team Player, quick learner and self-starter with effective communication, motivation and organizational skills combined with attention to details and business process improvements.
- Developed Faster websites using Static Site Rendering Frameworks like GatsbyJS, with Headless CMS, using Contentful API to speed up image load on the websites
- Worked with Python Flask to develop Blockchain application to manipulate Blockchain
- Experience hosting static websites over Netlify and connecting it with CMS websites like Contentful
- Have ability to analyze problems, root causes and develop innovative solutions to business challenges and streamlining operations.

Technical Skills:

Programming Languages: JavaScript, Python, Ruby, PHP

Web Frameworks: Node.js, Angular JS React JS, Bootstrap, Laravel, Django, Flask, Rails

Interests: Web Designing, Web Development.

Work Experience:

Full stack React JS Developer | Discover Financial Services, Riverwoods, IL: **Dec 2019 – July 2020**

- Developed responsive single page applications using NextJS, React JS, ASS, JavaScript/ES6, and Node.js
- Developed a server using Python Flask with endpoints to provide data to the UI
- Worked as the application lead to confirm the tech stack for the application
- Worked with team in developing an interactive menu with elegant animations using D3.js
- Designed reusable components to consume REST API's with Component-based architecture provided by React JS
- Developed ReactJS UI components using popular JS testing libraries like Jest and Enzyme, in a test-driven approach
- Used Dynamo DB for faster transactions utilizing the in-memory caching feature provided by dynamo DB
- Used JSON for storing and exchanging information between browsers and servers.
- Involved in writing application level code to interact with APIs, Web Services using AJAX, JSON and XML.

- Developed Mock UI using React JS to test different API supporting enrolment process, Login process, Eligibility process on new development initiative for creating a Dynamic App to support Existing User's flow.
- Created React Single Page applications using React Router Module .
- Designed dynamic client-side JavaScript codes to build web forms and simulate process for a web application, page navigation using React JS.
- Worked React JS 16.8 with React Hooks to use react state and lifecycle features from function components
- Used XML Web services with RESTful web service for transferring data between different applications. Developing react components for consuming web services
- Designed endpoints using NodeJS to serve data to the UI pages
- Co-ordinated with development team for deployment of application into Node Server
- Used Redux for maintaining the consistency to run the application in different environments (client, server, and native) which are easy to test.
- Developed web API using Nodejs and hosted on multiple load balanced API instances.
- Debugged the website using Chrome Developer's tool and manipulated the Nodes using DOM functions.
- Testing the website on multiple browsers to check if they are Cross browser compatible.

Full stack React JS Developer | Barclay Card US, Whippany, NJ: **Sep 2019 – Dec 2019**

- Designed Responsive Single Page Application using React JS, JSON, SASS/SCSS
- Developed an application using React JS, Redux, ES6, and Bootstrap in a Test-Driven Development Environment.
- Cooperate with UX team and redesigned using React -Bootstrap and React-UI to improve business competencies, also makes the website more attractive.
- Consume RESTful resources using AJAX call, receiving, analyzing and processing JSON responses to get the required proper-formatted data.
- Experience in React Js and working with React Redux architecture and using React Js Components, Forms, Event, Keys, Router concepts.
- Contributed to design and development of the UI for the Credit Card Offers Portal Developed a Rating Results viewing and analysis single page web app portal using React JS.
- Worked on React JS Virtual Dom and React views, rendering using components which contains additional components called custom HTML tags.
- Experience in React.js, creating interactive UI's using one-way data flow, virtual DOM, JSX, React Native Concepts.
- Familiar with creating custom reusable React Component Library.
- Developed RESTful services with NodeJs Loopback Framework and consumed with React Context API.
- Developed various build scripts to build and deploy across domains, creating jar/war etc. using MAVEN build tool.
- Created Node.JS middleware application server to encapsulate modern JS widget framework.
- Developed internal application using ReactJS and Node.JS connecting to Oracle on the backend.
- Used JavaScript for developing UI Components like Editable drop down, data-driven menu customizations.
- Used Bootstrap and React-UI Bootstrap for creating rich, Responsive UI for varying screen sizes and devices.
- Responsible for Web UI development in JavaScript using JQuery, ReactJS and AJAX.
- Creation of REST Web Services framework for the management of data using Apache CXF.
- Involved in the creation of interface to manage user menu and Bulk update of Attributes using Node.JS.
- Developed the JQuery callback functions to implement asynchronous communication using AJAX.
- Developed web applications and RESTful web services and APIs using Python, Django and PHP.
- Have Experience in List Comprehensions and python inbuilt functions such as Map, Filter and Lambda.
- Utilized Python libraries like Numpy and matplotlib for generating graphical reports.
- Automated JIRA processes using Python and bash scripts.To fetch data of definite options that are selected, Python routines were written to log into websites.
- Automated AWS S3 data upload / download using Python scripts.
- Responsible for setting up Python REST API framework using Django.
- Responsible for developing framework components and assets to be leveraged by the rest of the web team, accomplished through use of PHP5's OOP support for conventions such as protected members, interfaces, and final classes, ensure the integrity of the framework across dozens of client implementations.
- Primarily working in PHP and PL/SQL, build Oracle packages and Symfony commands to aggregate and process millions of records for client-specific reports.

- Built REST API with Node JS, Express JS and Implemented modules into Node JS to integrate with designs and requirement.
- Implemented different Design patterns like DAO, Singleton Pattern and MVC architectural design pattern of Spring framework.

React JS Developer | Express Scripts(Health Connect 360), Franklin Lakes, NJ: **Dec 2018 – Sep 2019**

- Developed SPA using HTML5/CSS3, SASS, JavaScript/JSX, React JS, Redux, JSON, Node.js, and Ajax Developed the backend by using Node.js, Express and MongoDB
- Utilized React Server-Side Rendering, to make the website faster by handling UI exceptions at server side
- Composed Unit Test cases using Jest - Enzyme for the ReactJS components, in a test-driven approach
- Used Node.js to run Grunt tasks and build properly the project (compile, minify, concat etc.)
- Developed single application to render dynamically based on the JSON from the Node JS server
- Used popular Node.js frameworks like Express and Restify to create a Restful Mock API
- Developed MEAN Stack from scratch including Mongo DB server setup and Express JS server development.
- Extensive use of Node JS, Express JS, and Mongo DB along with Mongoose.JS to create server side applications
- Implemented JQuery based accordion styles and handled complete JQuery in showing Rich Internet Application.
- Used Node Package Manager (NPM) to manage the modules and used it to install useful tools such as Grunt, Gulp, Express, underscore.js, require.js, crypto.js, passport.js, mongoose, mongo.js, body- parser, bcrypt.js and socket.io.
- Used JavaScript and XML to update a portion of a web page thus reducing bandwidth usage and load time and add modal dialog in web pages to get user input and requests.
- Extensive use of Node environment using NPM, Grunt, Gulp, Maven, Bower and Mongo DB along with Mongoose.JS to create server side applications and wrote MapReduce program to sort the words in a file..
- Drove multiple component design sessions parallel, creating design artifacts according to specifications.
- Utilized new software methodologies to be able to adapt to changes in requirements quickly
- Ensured that all components of the application are platform and browser compatible.
- Extensively used JQuery plug-ins, Ajax Queue, Auto Populating select-box, Search plug-in, calendar plug-in, AJAX-queue plug-in, and Auto populating multiple select-boxes.
- Coding, styling, testing of reusable JavaScript, CSS, HTML widgets / libraries for complex UI controls.
- Managed datasets using data frames and MySQL, queried MYSQL database queries from python using Python-MySQL connector MySQLdb package to retrieve information.
- Development of real-time multi-tasking systems using Python. Created data access modules in python.
- Skilled in using collections in Python for manipulating and looping through different user-defined objects.Design and maintain databases using Python and developed Python-based API (RESTful Web Service) using Flask, SQL Alchemy and PostgreSQL.
- Parsed Python & Django creating graphics, XML processing of documents, data exchange & business logic implementation between servers.
- Tested cross browser functionality and fixed major layout bugs for supported browsers including IE, Google Chrome, and Mozilla Firefox. Developed the UI using SWT to add/remove tags.
- Developed JavaScript validation for client side validations. Performed Code reviews and code fixes.
  Environment: NodeJS, ExpressJS, MongoDB, AJAX, HTML, CSS, PHP, Python, Django, JQuery, Apache CXF, Visual Studio Code.

Full Stack Developer | Blue Shield of California, San Francisco, CA: **May 2018 – Nov 2018**

- Actively involved in Requirement Gathering meetings with the Clients and Participated in project planning sessions with business analysts and team members to analyze business IT Requirements and translated business requirements into working model.
- Implemented Single Page Application (SPA) using HTML5, CSS3, Bootstrap and Angular 4.
- Participated in code review meetings and provided improvements.
- Use SVN for software configuration management and version control and deploy the application in JBOSS server.
- Developed custom JSON parsers to automatically discover the projects or schemas defined in the data source.
- Developed internal web dashboard applications using Node JS.
- Analyzed and fixed bugs reported in QTP and effectively delivered bug fixes reported with quick turnaround time.
- Involved in various phases of Software Development Life Cycles (SDLC) like Design, Development and testing phases, and developed Use Case diagrams, Class diagrams, and Sequence diagrams.
- Developed web applications using JSP, JavaScript, jQuery, HTML5, CSS3 and Spring (MVC) Framework.

- Worked on JMS (Java messaging services) using EJB MDB and JMS(IBM MQ)
- Used Spring IOC to inject services and their dependencies and leveraged spring-hibernate and Spring-mvc.
- Used Angular 4 framework in developing various UI components.
- Developed the application using Spring MVC controllers and used resource bundle to manage properties.
- Application development using Java/J2EE Technologies which include Servlets, Java Beans, Spring 3 Web Services
- Developed fully automated continuous integration system using Git, MySQL, and tools developed using Java Spring.
- Worked with team to develop automation scripts for new enhancements using Selenium WebDriver and Junit
- Assigned tasks to junior members in the team, guided them, supported in finishing their tasks.
- Working with team of 5 members and worked closely with them in delivering the task and also work with project manager, engineering principals, and the production team.
- Delivered the defect free code in time that complies to the standards of client

Environment: HTML5, XML, JSON, Eclipse, Angular 4, TypeScript, SVN, SOAP, REST, Java Spring Boot.

Cloud Developer | Veridic Solutions, Pleasanton, CA: Nov 2017 – Mar 2018

- Designed and managed public/private cloud infrastructures using Amazon Web Services (AWS).
- Deployed Web Applications into Amazon AWS by configuring the Elastic Beanstalk application and environment
- Worked On-Premise migration into AWS, over a dedicated connection using AWS Direct Connect
- Analyze AWS based product for defects, and enhance automated testing to prevent regression.
- Developed cookbooks using Chef for Deploying services on Hybrid environments, both Windows and Linux
- Developing a deployment management system for Docker Containers in AWS Elastic Container Service.
- Converted numerous existing Java projects to a single deployment method using ECS Docker Containers.
- Used Cloud Watch for monitoring AWS cloud resources and the applications that deployed on AWS by creating new alarm, enable notification service.
- Created network architecture on AWS VPC, subnets, Internet Gateway, Route Table and NAT Setup.
- Installed and Configured configuration tools such as Chef Server/workstation and nodes via CI tools to AWS nodes.
- Manage AWS EC2 instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our QA and UAT environments as well as infrastructure servers for GIT and Chef.
- Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
- Extracted the data from MySQL, Oracle, SQL Server using Sqoop and loaded data into Cassandra.
- Maintained the user accounts (IAM), RDS, Route 53, VPC, RDB, Dynamo DB, SES, SQS and SNS services in AWS c
- Built Continuous Integration environment Jenkins and Continuous delivery environment.
- Build servers using AWS, importing volumes, launching EC2, RDS, creating security groups, auto-scaling, load balancers (ELBs) in the defined virtual private connection.
- Deployed applications on AWS by using Elastic Beanstalk.
- Involved in designing and deploying multitude applications utilizing almost all the AWS stack (IncludingEC2,Route53, S3, RDS, Dynamo DB) focusing on high-availability, fault tolerance, and Auto-scaling in AWS CloudFormation.

Full stack Java Developer | N2 Services, Jacksonville, FL: July 2017 – Nov 2017

- Implemented Angular app with CRUD features utilizing all concepts of Angular 4 i.e. Data binding, Components, Directives, and user-defined directives, Routing, Observables, Forms, Pipes, Services with Dependency Injection
- Worked with Angular 2 forms like Template Driven forms and Reactive forms (Dynamic Forms) to perform form validations both on server and client side
- Developed the business logic using Java Spring MVC and deployed components on Web Sphere Application server Bootstrap used along with Angular 2 in creating the Application.
- Used NodeJS for doing non-blocking design operation for server side code.
- Used Angular 2 framework in developing various UI components.
- Developed the application using Spring MVC controllers and used resource bundle to manage properties.
- Application development using Java/J2EE Technologies which include Servlets, Java Beans, Spring 3.x, Web Services (SOAP and RESTFUL) .
- Implemented Mule ESB java based enterprise bus and Integration platform to connect applications quickly and easily which enables them to exchange the data through JMS.
- Integrated the Java code (API) in JSP pages and responsible for setting up Angular 2 framework for UI development.
- Developed web applications using JSP, JavaScript, jQuery, HTML5, CSS3 and Spring (MVC) Framework.

- Used Factory, DAO, Singleton and DTO and Value Object, Business Delegate design patterns as part of implementing business logic.
- Worked on JMS (Java messaging services) using EJB MDB and JMS(IBM MQ)
- Used Spring IOC to inject services and their dependencies and leveraged spring-hibernate and Spring-mvc
- Developed using Spring MVC, Angular & RESTful Web Services in Service Oriented Architecture.

Web Developer | Mildred Mitchell-Bateman Hospital, Huntington WV: **Jan 2017 – May 2017**

- Designed a secure responsive web interface using Bootstrap4 for viewing the website easily on any device.
- Architecting a fast, robust back-end using Python Django to record the posts and intimate the personnel about any new maintenance requests and the pre-registered maintenance dates
- Django ORM was used here to manage all the equipment and user information, over SQL lite 3 DB
- Utilized the Django templates to design robust user interface for the web application
- Handled the user sessions using Django sessions package, to ensure secure application usage in multiple aspects
- Utilized the messaging package to route the ticket raised for any equipment fault or failure to the service persons
- Created and assigned user roles with appropriate permission to manipulate or change the tickets raised and currently active

Web Developer | Stadium Sports, Huntington WV: **July 2016 – December 2016**

- Developed RESTful services with NodeJS Loopback Framework.
- Created Node.JS middleware application server to encapsulate modern JS widget framework.
- Developed the Front end / UI components using: HTML5, CSS3, CSS Preprocessors (such as: Sass and LESS), JavaScript.
- Made the website's UI responsive using Bootstrap4, along with AJAX.
- Designed dynamic client-side JavaScript codes to build web forms and simulate process for a web application, page navigation using React JS
- Worked on JavaScript to validate input, manipulated HTML elements using JavaScript developed external JavaScript codes that can be used in several different web pages.
- Designed and developed the presentation layer using AJAX for RUI (Rich User Interface).
- JSON is used in conjunction with JavaScript for making HTTP requests. jQuery is used for validation

IOT Developer | WV Aquavit, Huntington WV: **March 2016 – May 2016**

- Developed a wireless sensor network using Raspberry Pi 3, Arduino
- Attached and configures a Vernier Water pH sensor to actively read and report water pH value, of Ohio River
- IBM Bluemix was the cloud platform use here to receive the water pH values and report the project admin about any changes in the pH level

Web Developer | Recreation Center, Marshall University, Huntington, WV   **July 2015 – February 2016**

- Design and maintain databases using Python and developed Python-based API (RESTful Web Service) using Flask, SQL Alchemy and PostgreSQL
- Developed responsive component based UI for the application using React JS, Bootstrap.
- Developed the jQuery callback functions to implement asynchronous communication using AJAX.
- Designed and developed a horizontally scalable APIs using Python Flask.
- Involved in back end development using Python with framework Flask
- Developed UI with cross-browser compatibility to provide good browsing experience in different browsers

Software Developer | Adroit Technologies, Coimbatore, TN, India: **September 2012 – March 2015**

- Collaborated with client side managers, product managers and creative teams to deliver efficient solutions for clients
- Designed web interfaces for websites and web applications using Bootstrap, React JS and Angular JS/2.
- Developed web applications with frameworks like Node.js, PHP Laravel, Python Django and Ruby on Rails.
- Composed Python scripts to parse documents like XML, Excel, CSV and load the data into database.
- Developed a Rails application for the cross functional sharing data between Backend and Frontend.

- Experienced in developing single page web applications using web frameworks like Angular and React.
- Managed Actionable View database to store customer profile, insight, conversation and interaction event data
- Full stack web developer responsible for end-to-end web application development.
- Increased code efficiency by reducing bug count in the code developed from 30% to 11%.
- Spearheaded transition from LAMP stack to MEAN stack, reducing latency by 40% and increasing database admin effectiveness by 20%.
- Developed app integration with REST / SOAP and other APIs for Google Maps, social media logins, payment processors, and other services.
- Worked in Agile Software Development methodology.

Web Developer | Foresight Technology, TN, India: **July 2012 – May 2013**

- Developed a full-stack web applications to process, analyze, and render data visually.
- Designed an internal web application, with a responsive interface using HTML5/CSS3, JavaScript, and Bootstrap 3.
- The entire employee information was stored and managed over a MySQL database
- Debugged web applications and software with complete accuracy, to render a bug free code.
- Gathered requirements the Managers and Team Lead to design the application structure to develop an application that can be easily ported to other projects, easily and will lesser changes
- A Robust backend was designed using PHP Laravel, which made creating and assigning user roles much easier
- Worked on developing a secure application safe from attacks like SQL injection, CSRF and Cross-Site Scripting
- Worked with team to test the application using PHPUnit, for reducing the app breakdowns

Personal Projects:

1) Developing an eCommerce website using Python **Django**, with React JS, **Stripe JS**, AWS and **Mailchimp**.

2) Developed **Blockchain** application using JavaScript, to create and verify a decentralized blockchain network.

3) Developed 2 **Blockchain** applications using **Python Flask** to create and maintain a **decentralized blockchain** network using Python Data Structures, **RSA Encryption** Algorithms and **Digital Signatures**.

4) Designed a Single Page Application for a coffee shop using **Gatsby JS**, React JS, **GraphQL** and **Contentful**, with a **payment gateway** to the website, using **Snipcart** to allow customers to purchase products online and hosted the application using Netlify => https://ngp-gatsby-coffeeshop.netlify.com/

5) Designed an IOT Circuit, using Raspberry pi 3, Arduino, Soil pH sensor, moisture sensor to intimate the user about watering the plant and also providing manure to the plants(*research under progress*)

6) Working on developing an eCommerce website for apparels with **Shopify Themes** and **Shopify webhooks**

Academic Research Projects:

1) Latent Fingerprint Matching Using Minutiae Based Descriptor
  A descriptor would be used to make the latent fingerprints more eminent. A sketch would made on the visible portion of the fingerprint and would be compared with the sketches of the fingerprints in the database. The ones that reach the threshold match percentage would be reported to the investigators.
  Environment: MATLAB

Education:

- Marshall University – Masters in Computer Science (May, 2017)
- Sri Krishna College of Engineering and Technology - Bachelors in Computer Science and Engineering (December, 2012)

Activities:

  Start my day with some Jogging and Yoga/Meditation to help me stay fit physically and mentally. A good hike among the woods with my friends help me rejuvenate myself and cherish my love for nature.