Senthan Shanmugaratnam

Software Engineer

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Expected Salary: Negotiable.
Availability: Immediately.

OBJECTIVE

To be exposed in a challenging industrial environment where I could exploit my knowledge and skills for the beneficial of the company and improve my skills and personality. I mostly rely on self-learning and best practices. I would like to work with cutting edge technologies which can expand my knowledge further.

SUMMARY

- BSc Honors in Computer Engineering at University of Peradeniya, Sri Lanka.
- Having four years of extensive experience in architecture, design and development of developing Web application and Mobile application using latest Technologies
- Experience in working with Model View Controller (MVC) architecture based web developments using Laravel MVC and JavaScript Frameworks.
- Proficient in working with Eloquent ORM Laravel and Composer and Application Servers such as Nginx, Apache and HTTP server in Node.js.
- Process Expertise in Object-Oriented Analysis/Design and PHP Development, skilled at progressing from problem statement to well documented designs.
- Experience in Agile Development (Scrum). Good Team player and also have ability to work independently.
- Expert in advanced development methodologies, tools and processes contributing to the design and rollout of cutting-edge software applications, writing efficient and sophisticated code.

TECHNICAL SKILLS

- **PHP/Laravel Technologies:** Artisan Console, Middleware, Session, Authentication, Passport, Routing, Hashing, Broadcasting, Cache, Collections, Events, Packages, Queues, Scheduled Tasks, Pagination, Migrations, Mutators, Redis, Mail
- **Web Technologies:** Bootstrap, Semantic UI, HTML, CSS, JavaScript, jQuery, Ajax, XML, DOM, JSON, Angularjs, Node.js, Socket.IO, Emojione, CKEditor.js, FullCalendar.js, Dropzone.js, Sortable.js, Clipboard.js, Lightgallery.js, Lightbox.js, colResizable.js, Chart.js Moment.js and Meteor.js
- **Web Services:** SOAP (WSDL) and SNMP Trap
- **Communication protocols:** WebRTC, SIP, TrixBox
- **Application Servers:** Apache Tomcat, Nginx
- **Programming Languages:** PHP, Java, C, Perl, SQL, Bash (Shell Scripting), Matlab and R.
- **Mobile Technologies:** Android, Ionic
- **Database Technologies:** MySQL, Amazon Aurora and Redis
- **Testing:** PHPUnit, Selenium and Mocha
- **IDE:** PhpStorm, Eclipse, Sublime, RStudio and Android Studio.
- **Operating Systems:** Windows, Linux (Ubuntu and CentOS)
- **Source Control:** Bitbucket, GIT
- **Methodologies:** UML, OOP, OOAD, Functional Programming, Image Processing, Socket Programming, Parallel programming (Multithreading), Waterfall and Agile Scrum Methodology
- **Others:** AWS (EC2, S3, Route 53, RDS, SQS), JIRA, Supervisor, Cron, Webwin, SSH, Putty, Cacti, SoapUI, OpenCV

INDUSTRIAL EXPERIENCE

Software Engineer, jEyLaBs (Ceymplon) Pty Ltd

FEBRUARY 2015 – APRIL 2017

Responsibilities:

- Played a Senior Developer role in Ceymplon Web R&D Team
- Involved in the preparation of prototype, demos of the project and scrum estimation
- Involved in Design, Research and Development of technology stack with collaboration of architect
- Involved in Agile Scrum Development, Test Driven Development, Behaviour-Driven Development and Code Reviews
- Involved in fast paced scrum team which has release every 2 sprints
- Wrote Migrations, Relationships, Mutators, Models stored procedures and modifications to existing database structure using Laravel Eloquent ORM
- Analyze the middleware, authentication and authorization on laravel
- Involved R&D to develop wildcard DNS and multi-tenant database architecture
- Worked in multiple cutting edge functions development. Such as search and pagination feature, dashboard real time notification functionality, dashboard update scheduler, audit functionality, workflow functionality, KPI module, event module, recruitment module, marketing campaign module, chat module, page speed module using google PageSpeed Insights API in the DD system, image management, slider management, map management, content management and form management for

existing website in the CMS system and SNMP trap management, network monitoring and graphing management using cacti, request management (reset vsat, block vsat, allotDeleteHostCatalogEntries, etc) and response management (getVsatsfromNMS, allotGetAllNetworkDevice, etc) using SOAP, VSAT Management and Real time VSAT status update in the skyVNO system

- Involved in workflow functionality implementation. Such as leave, expense claim and interview managements with workflow on team organization develop and R&D on symfony workflow integration on laravel
- Developed and Supported Deliver Daily, Vaultpro.Business, SkyVNO, jEyLaBs CMS Systems with the new features

Deliver Daily

An office administrator has the responsibility of ensuring that the administrative activities within an organization run efficiently, by providing structure to other employees throughout the organization. These activities can range from being responsible for the management of human resources, budgets, leave and records, to undertaking the role of supervising other employees. These responsibilities can vary depending on the employer and level of education. Marketing campaign module is a newsletter service that allows you to send out email campaigns to a list of email subscribers and tracking email campaign and generate the report.

- Role Played: Developer, Customer Support and Production Maintenance
- Skills Used: PHP(Laravel), Redis, Bootstrap, HTML, Javascript , Ajax, Angular.js, Amazon Aurora, Semantic UI, Node.js, PHPUnit, Selenium, Socket.io and Bash

Vaultpro.Business

Vaultpro.Business is a multitenant application as a service (SaaS) database application that run a cloud environment. It is a prototype to facilitate software delivery and license

- Role Played: Developer, Customer Support and Production Maintenance
- Skills Used: PHP(Laravel), Bootstrap, HTML, Javascript, Ajax, Angular.js, MySQL, Semantic UI, Selenium and Bash

jEyLaBs CMS

A content management system (CMS) has image management, slider management, map management, content management and form management for existing website(jeylabs.com)

- Role Played: Developer, Tester, Customer Support and Production Maintenance
- Skills Used: PHP(Laravel), Bootstrap, HTML, Javascript, Ajax, Angular.js and MySQL

SkyVNO

Develop a plugin for Cacti to Monitoring and managing VSATs in Nms Server. VSAT (Very Small Aperture Terminal) is a satellite communications system which is connecting with the satellite and providing network coverage for a particular area. The SkyVNO Virtual Network Operator (VNO) feature has been developed. A single SkyVNO Host Network Operator (HNO) can be used multiple independent Virtual Network Operators (VNOs). Along With these VNO capabilities, a Host Network Operator (HNO) can setup the infrastructure to configure multiple Virtual Networks (VNs).each VN have own unique allocation of resources. The HNO is able to setup different user classification like different types for VNO users. Each of these user classifications will contain a full set of access rights (both functional and modular capabilities), which can be assigned to the user type

- Role Played: Developer, Tester, Requirement Analyzer, Customer Support and Production Maintenance
- Skills Used: PHP(Laravel), Redis, Bootstrap, HTML, Javascript , Ajax, Angular.js, MySQL, Node.js, Selenium, Socket.io, Perl and Bash

Software Engineer, Adrotec Pvt Ltd   APRIL 2014 - FEBRUARY 2015

Responsibilities:

- Involved in Full Software Development Life Cycle in scrum methodology and waterfall
- Design and Develop software with the guidance from Architect
- Reviewing and gathering requirements from client
- Developed design documents, such as Class Diagram and ER Diagram
- Developed the activities and closely worked with design team to come up with a UI design
- Developed the video stream management using webrtc and node.js

PDMS

Aim of this project was to managing patients history and diagnosis on Routine Surgery, notify the alert to doctors and online medical consultation with doctor. The Patient Data Management System (PDMS) is a comprehensive software system in which all the data of patients can be integrated. The system is primarily intended for use in complex Care- Intensive / High Care point or Medium Care patients.

- Role Played: Developer, Designer and Tester
- Skills Used: Node.js, WebRTC, Bootstrap, HTML, Javascript, Ajax, Angular.js, MySQL and Mocha

PDMS Mobile R&D

PDMS Mobile is a prototype to facilitate PDMS mobile users to notified surgery status, history and able diagnosis, chat with doctors and patients. Hybrid app Developed using Ionic, Cordova and Angularjs, build the application for iOS and Android from Hybrid Source

- Role Played: Developer, Tester
- Skills Used: Ionic, Angular.js, HTML, CSS, Cordova, ngCordova, Node.js, Android SDK and iOS SDK

Associate Software Engineer, Adrotec Pvt Ltd   OCTOBER 2013 - MARCH 2014

Responsibilities:

- UML diagram of project was created.
- Built the tables in MySQL using Symfony and doctrine with xml mapping.
- Create/Edit of user and company profiles were created.

Business to Business Directory

Creating network among the companies to share information and documents effectively

- Role Played: Developer, Designer and Requirement analyzer.
- Skills Used: PHP(Symfony 2 MVC), XML, Knockout.js, JavaScript, HTML, Durandal.JS and Breeze.js

ACADEMIC PROJECTS

Real Time Automatic Attendance Management System – Final year project

This system was developed in Matlab and In System that can detect the face and identify the face

- Role Played: Analyzer, Architect, Designer, Developer, and Tester
- Skills Used: Matlab, OpenCV

Multithreaded Chat room – Course project

Developed Server, Client Chat Application and Which Server capable of Handling Multiple Clients

- Role Played: Analyzer, Architect, Designer, Developer and Tester
- Skills Used: C, Pthreads

Taxi Dispatch Services – Course project

This system was developed in PHP and In system that book the taxi services

- Role Played: Idea, Analyzer, Architect, Designer, Developer and Tester
- Skills Used: PHP, JavaScript, xampp, MySQL

EDUCATION DETAILS

- B.Sc. Honors degree in Computer Engineering from University of Peradeniya.
  - GCE Advanced Level, Kokuvil Hindu College, Sri Lanka.
    (2009) A – Combined Mathematics, B – Physics and C – Chemistry
- Followed Multiple MOOC Courses. Such as MongoDB for Node.js Developers, How to Use Git and GitHub, Creative, Serious and Playful Science of Android Apps

AWARDS AND CERTIFICATIONS

- Mahapola Merit Scholarship for the best performance in GCE Advanced Level (2010 - 2014)
- Runner-up District Science Exhibition, Physics Stream.
- Participated IEEExtreme Programming Competitions (2013).

EXTRA CURRICULAR

- Volunteered Noolaham Foundation (Digital Library) in Sri Lanka: Nov 2014 – Feb 2016.
- Participated in Zonal Chess Tournaments.
- Played in School Cricket Team (U-14, U-16).

PERSONAL INFORMATION

- **Date of Birth:** 01st May, 1990
- **Gender & Status:** Male & Single
- **Nationality:** Sri Lankan
- **Languages Known:** English and Tamil

REFERENCES

Available upon Request