**Soundarya**

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**Professional Summary:**

* Over 6 years of professional experience in **software application development** with distributed architecture and designed using Pro\*C, C, Object-oriented programming, Web Technologies and other related technologies.
* Hands on experience in application development with emphasis on **Pro\*C, C++, SQL, UNIX, XML, shell scripts, Mak files**.
* Proven track record  writing complex **SQL Queries, Cursors, Stored Procedures, functions, packages, tables, views, triggers and data connectivity and data integration of Oracle**.
* Perform backend coding and testing using database **SQL** and **PL/SQL queries**.
* Expertise in many programming languages such as **C, C++, Java, JavaScript** and related frameworks.
* Profound Knowledge in **Document Object Model** (DOM).
* Proficient in **Object Oriented Concepts**. Confident to work with any object oriented programming language.
* Knowledge & experience of **Agile-Scrum** and **Waterfall** methodology for executing the project product phases.
* Experience in coding, testing, developing, enhancing and implementing applications.
* Extensive experience in writing **UNIX shell scripts** (korn shell scripting, C shell scripting) and **regular expressions**.
* Experience in developing **single-page applications** (SPAs) using **AngularJS** framework and carrying out the subsequent interactions through **AJAX** requests, **Bootstrap**.
* Experience in implementing tardiest development approaches including **MVC**, event-driven applications using **AJAX**, **Object Oriented (OO) JavaScript, JSON,** and **XML**.
* Experience in front-end development with emphasis on **HTML5, CSS3, JavaScript, Bootstrap**, and JavaScript frameworks like **AngularJS, AJAX and JQuery UI**.
* Strong knowledge in **SDLC** and all phases of Application development.
* Good experience in **UNIX based platforms**.
* Hands on experience processing **XML** files with **C programming embedded with SQL**.
* Great ability to write clear, maintainable, well-documented, well-commented and efficient code for software application development.
* Strong debugging skills using **Firebug, IE Tester,** and **Chrome Developer Tools.**
* Effective team player with an aptitude to learn and ability to prioritize, organize and accomplish multiple tasks, both as part of a team and independently.
* Enhance and support new product functionality, which includes tasks like developing new features, integrating with internal and third party systems and fix the bugs found during the quality control.
* Highly dedicated, quick starter, solution driven pattern programmer, strong in object oriented analysis and design, excellent at solving complex problems under strict deadlines.
* Strong perseverance and diligence towards attaining challenging goals and possess excellent communication skills.

**Technical Skills:**

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| Skills | XML, DOM, Pro\*C, Unix Shell Scripts(Bash, Ksh, Csh, Perl), HTML, CSS, JavaScript, JSON, AJAX, JQuery |
| Frameworks | Angular JS, React JS |
| Languages known | C, C++, JavaScript, Java, Python, SQL |
| Database | Oracle 11g, NoSQL, MYSQL, Informix, IBM DB2, MS SQL SERVER |
| Web Servers | HTTP Web Server, Apache, Tomcat |
| Environment | SQL Plus, MS Office, Notepad++, Visual studio, PHP storm, Atom, Eclipse, sublime, Adobe Dreamweaver, Adobe Photoshop. |
| Operating Systems | Windows, Mac, Unix |

**Professional Experience:**

**DXC Technology, USA *Sep ’16 – current***

**Role: C & UNIX/ Batch Developer (Dev III)**

**Project: Electronic-Insurance Based Billing (E-IBB)**

**Description:** The Third Party Liability (TPL) function provides capabilities to manage the private health, Medicare, and other third party resources of Medicaid recipients, and ensures that Medicaid is the payer of last resort. This function works with a combination of cost avoidance (claim denial) and cost recovery (post-payment billing to insurers). In addition, the TPL function supports the Health Insurance Premium Payment (HIPP) process that purchases health insurance for selected recipients.Electronic-Insurance Based Billing (E-IBB) is a part of TPL. This function is also responsible for all cost avoidance processing including Medicare Parts A and B. The main aim is to upgrade all the paper based system to electronic. To the maximum extent possible, the MMIS uses automated processes for cost avoidance. Cost recovery shall be utilized as a backup to the avoidance process. All input and output transmissions and formats are HIPAA-compliant. The information maintained by the MMIS TPL function includes recipient TPL resource data, insurance company data, and post-payment recovery tracking data. TPL coverage type and threshold information are used by the Claims Processing function during claims adjudication. The Casualty function provides capabilities to maintain information from recipient, providers, attorneys and hospital trauma report on recipients who have been injured or became ill through the actions of another party that is then liable for payment of the resulting medical services provided. Payments are received from individuals, attorneys’ offices and various insurance companies.

**Responsibilities:**

* Design, develop and test applications using **Pro\*C, C, SQL, UNIX, XML** and other related technologies.
* Participate in the entire lifecycle of the project, which involve the understanding scope of the project, functionality, Data Modeling, documentation of technical architectural design and complete development.
* Develop new procedures for requirements gathering, needs analysis, testing, scripting and documentation to strengthen quality and functionality of critical applications.
* Developed UNIX **shell scripts** for testing the application and writing the **SQL queries** for Sybase database.
* Develop Job files with UNIX shell script and **regular expressions.**
* Perform **Autosys** in order to run the job.
* Contribute and build tools, **Ksh, Csh, Perl** scripts for the application and writing the **Make files** to compile the programs as per DXC technology internal project standards.
* Clear understanding of **Document Object Model (DOM)** for easy navigation of **XML** files.
* Create and compile using **Mak files**.
* Build and develop various portals using **Pro\*C** and run and test them with **Job** and **Mak files** in the various UNIX environment.
* Perform **Unit testing** on the developed application by creating own data and document.
* Perform backend coding and testing using database **SQL** and PL/SQL queries.
* Process the **XML** files with C program and data from SQL.
* Closely interact with the business analysts to understand and analyze the requirements and for the testing of the program in various environments.
* Verify the working of the code with job in all three environments like **Test**, **UAT, Model office (MO)** and **Prod**.
* Experience on Change Management, Prepare Implementation, back out and test plan for change records. Perform risk and **impact analysis** for changes.
* Processed (CROSSWALK) complex input XML files for the project requirement and send the processed (CROSSWALKED) XML files to EDI (**837P, 837D, 837I**).
* Develop Complex **SQL** queries and **CURSORS** and embed them in the C program or **PRO \*C** programming.
* Participate in the meetings, give status of tasks, schedule and update the status in **Project Work Book** (PWB).
* Developed numerous forms, reports and utilities using Oracle forms 4.5, **Pro\*C, C, Awk, Sed.**
* Enhance and support new product functionality, which includes tasks like developing new features, integrating with internal and third party systems and fix the bugs found during the quality control.
* Use FileZilla to upload the files like the source **code, Job, Mak** files to Project work book.
* Volunteered and conducted various study group for technologies like **JAVA** and **JavaScript** and related frameworks.
* Routine Performance Analysis, performs **Unit testing** for necessary planned changes.
* Understand the requirement both functional and non-functional by going through the specification and input from business analysts.
* Involve in Designing, preparing and executing the unit tests.
* Responsible Person for the walkthrough for the developed code through the production and code reviews.
* Respond to issues assigned, conduct analysis, suggest/implement workarounds, communicate to all the required personnel and close issues as per agreed timelines in order to ensure customer satisfaction.

**Tools & Technologies:**

Pro \*C, SQL, XML, UNIX Shell Script (Ksh, Csh, Perl),Awk, Sed, C++, UNIX Internals, Makfile, TCP/IP, Linux, Windows, Oracle 8, SQL Server,

EDI Transactions (837 I/P/D), Putty, SharePoint, Notepad++, Visual Studio, Project Work Book (PWB).

**CNA Financial, USA *Jul ’15 - Aug ’16***

**Role: Programmer Analyst**

**Project Description:**

The aim of the project was to deliver transparency to consumers regarding their healthcare costs and health insurance information through comprehensive data products and consumer resources. This was achieved by accessing databases of billions of billed medical and dental services and eventually creating a free website that enables consumers to estimate and plan their medical and dental expenditures. We also published articles and videos about the healthcare insurance reimbursement system.

**Responsibilities:**

* Analyzed, designed and developed the system to meet the requirements of the project with technologies like **XML, HTML, CSS, Angular UI Bootstrap, SQL, UNIX and JavaScript.**
* Involved in development and finalization of initial design of the application and worked with content Managers, copywriters and designers to resolve the issues.
* Created reusable components in **Angular JS** based on the project need using Custom Directives Filters, Services and Factories.
* Performed a lot of **DOM operations** for loading and manipulating dynamic content on web pages.
* Data feeds: Developing **UNIX/Linux shell, Perl scripts** to load client’s data feeds.
* Used **AGILE** methodology for software development.
* Identified data issues and provided recommendations for resolution to ensure optimal performance.
* Develop complex **SQL** queries using **stored procedures**, functions and similar methods to extract data for business needs and automated the process by scheduling multiple jobs.
* Implemented the UNIX scripts, and **SQL queries** for migrating data from one database to another database.
* Responsible for initiating, planning, construction, execution, monitoring and controlling web applications.
* Worked with internal and external clients for import and normalization of **third-party** data.
* Participate in the **scrum** meetings, give status of tasks, schedule and update the status in **AGILE** tool.
* Handling **Linux** and **Windows** **Server** deployment issues alone. Implement features like Firewall in Linux/windows, Command line support, and Product optimization.
* Worked with other developers to resolve and fix the faults found in testing the structure and functionality of the application.
* Created forms in **HTML5** to collect validate the data using angular form validation techniques.
* Build and maintain **SQL scripts**, **indexes**, and **complex queries** for data analysis and extraction.
* Gathered business requirements and converted it into **SQL stored procedures** for database specific projects.

**Tools & Technologies:**

UNIX, Linux, HTML5, CSS, JavaScript, SQL Developer, Angular JS, Sublime Text 2 IDE, Putty, SharePoint.

**University of Bridgeport, USA *Jan ’15- Jun ’15***

**Role: Full Stack Developer**

**Project Description:**

This Student Portal is to implement a web portal and maintain a database towards the students, student workers, research assistants and teaching assistants. Major part of the project deals with the effective database which maintains all the data. Secondary part of the project is to produce an effective web portal. Web portal is designed in the specific way which contains all the future works and current affairs which are represented in the university. This is also included with the signup and login pages. Details from student ID to current position will be included and also current available jobs will be posted in the web portal.

**Responsibilities:**

* Created user-friendly and well organized UI's using **HTML**, and **CSS.**
* Used **Cascading Style Sheet (CSS)** in web pages to separate presentation from structure to be able to define text alignment, size, borders, and many other typographic characteristics.
* Worked upon the dashboard for the project which contained a variety of charts and drag gable components using **JQuery** UI Library.
* Created **stored procedure, Views, Cursors** and **functions** to support application.
* Responsible for checking cross browser compatibility and hence worked on different browsers like safari, Internet explorer, Firefox and Google chrome; responsible for making the application mobile-device friendly.
* Implemented the **UNIX** scripts, and **SQL** for migrating data from one database to another database.
* Responsible for developing, editing, publishing and managing content on the portal.
* Developed components to fetch the data from the backend using **AngularJS**and **AJAX**.
* Implemented the **Bootstrap components** like Thumbnails, Progress bar, and Carousel in the product details

**Tools & Technologies:**

AngularJS, jQuery, HTML, CSS, Bootstrap, Oracle, SQL loader, SQL Server, SQL Developer, UNIX shell scripts, Putty.

**University of Bridgeport, USA *Aug ’14 - Dec’14***

**Role: Teaching Assistant**

**Subject: CPSC501 –OOP and Design Pattern**

**Description:**

This course introduces the modern Object-oriented programming philosophy using C++ to the beginning graduate students. The emphasis is on developing the programming thought process in terms of objects and their interactions to each other. Concepts such as data hiding, code reuse through inheritance, polymorphism, templates, exception handling are clarified through examples and programming assignments. Software project(s) involving

medium complexity data structures and algorithms are assigned to strengthen the Object-oriented design principles and issues involved in large software design such as developing appropriate class hierarchy, exception handling, and code maintenance.

**Responsibilities:**

* Delivered lectures keeping up to date with advances in Object-oriented programming, especially in the field **C++, Classes, Objects and Data Hiding, Function and Operator Overloading, Constructors and Destructors, memory allocation and isomorphic Design patterns**.
* Conducted pair programming sessions to make sure that all the students get hands on experience with writing efficient and reliable code.
* Contributed to curriculum development by planning, developing, and evaluating new and existing courses and curriculum.
* Worked with students on various **Object-oriented programming** projects.
* Emphasized on **UML** (Unified Modeling Language).
* Evaluated students based on their projects and academics.
* Developed interesting course plans to meet academic, intellectual, and social needs of students.
* Worked on all tasks, related to **OOP** and supporting of project.

**Tools & Technologies:**

Object-oriented programming, C++, Design Patterns, UBportal. UML.

**Impetus Infotech, IND *Apr’13 – May’14***

**Role: Software Developer**

**Project Description:**

Impetus Infotech developed an application for scheduling of distributed application developed to cater the need of scheduling the various resources. Every resource, which may be animate or inanimate is considered as a schedulable object and the user can perform various functions like booking a resource, view the schedule of a resource, and check the availability of resource and many more.

**Responsibilities:**

* Developed application codes, design instructions and modules from technical requirements.
* Plan, design, and implement application **database code** objects, such as **stored procedures** and **views**.
* Perform quality assurance and testing of **SQL** server environment.
* Ensure best practices are applied and integrity of data is maintained through **security**, **documentation**, and **change management.**
* Helped create process logging and new **monitoring tools,** **integrity reports**, and **mapping tools**.
* Coded several on-line applications using **SQL\*Forms** and **Pl/SQL**.
* Wrote different reports and batch programs in **Pro\*C.**
* Liaised with project management and development teams to identify and implement reporting, control, and automation opportunities to improve overall access to information.
* Performed unit and system testing for different modules.
* Extensively used **Korn Shell Scripts** for doing manipulations of the flat files, given from the Database.
* Coordinated with project team staff for project scope and completion of assignments within timelines.
* Played a crucial role in the project **support** **team**.
* Performed unit testing and integration testing services for software applications as per requirements.
* Provided technical support services and designing standards for software components and applications.

**Tools & Technologies:**

UNIX Shell Scripts, Pro\*C, Pl/SQL, SQL\*Loader, Oracle, SQL\*Plus, SQL\*Forms 3.0, VB 4.0, MS Excel, C.

**IEEE Publication:**

# V.K.Gudipati, T.Venna, S.Subburaj, O.Abuzaghleh “Advanced automated SQL injection attacks and defensive mechanisms”, [*Industrial Electronics, Technology & Automation (CT-IETA), Annual Connecticut Conference on*](http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=7861613)*,* *2016.*

**DOI**: [10.1109/CT-IETA.2016.7868248](https://doi.org/10.1109/CT-IETA.2016.7868248)

**Education:**

Master’s degree in Computer Science – Class of 2016

*University of Bridgeport, Connecticut, USA*