Sulav Sharma Gautam

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- Career oriented engineer with 5+ years' experience in web application development, deployment and database designing.
- Familiar with database first approach, Test Driven Development, Unit Testing, Software Development Life Cycle and Cloud Platforms.
- Experience in working with software development methodologies (AGILE) and ability to develop custom algorithms.

EDUCATION

Master of Science in Electrical and Computer Engineering　　December 2017
University of Houston, Houston, Texas, USA　　GPA: 3.70/4.00
BE, Electronics and Communications Engineering　　December 2014
Tribhuvan University, Nepal　　GPA: 3.96/4.00

Relevant Coursework
Programming with C, C++, Database Management System, Data Structure and Algorithm, Software Engineering, Signal Processing, Statistical Analysis, Computer Network, Microprocessor Programming, Principle of Internetworking, Data Mining, Data Analysis, Machine Learning

PROFESSIONAL EXPERIENCE

SOFTWARE ENGINEER　　September 2014 – August 2016
Kalpa Creatives, Kathmandu, Nepal

- Contributed in various stages of the project lifecycle from requirement, database designing, algorithm development and deployment.
- Create, document and execute software design process which involves complicated workflows or multiple product areas.
- Lead design and development of enterprise application using core PHP, MySQL, Python, Django, Angular JS, React JS.
- Developed MVC applications with PHP's Laravel Framework and created RESTful API's with the framework in JSON.
- Developed algorithm for highly complex problems and integrated third party API's and payment processing gateways.
- Data Analysis, reporting, data scrubbing and data verification for more than a hundred different healthcare payers.
- Oracle based PL/SQL scripting for cleaning, manipulation and modifying large sets of complex data.
- Designed Oracle Databases including: SQL queries, E-R table and schema design and optimization.
- Developed Dynamic and Responsive sites with HTML5/CSS3, AJAX, jQuery, JavaScript and Bootstrap 3.
- Client meetings and discussion, prepared status report and progress report on current project.
- Developed technical documents related to the application design and requirements; developed user manuals.
- Mentor and train junior developers and influence adoption of best practices among development team.

SOFTWARE DEVELOPER　　May 2013- September 2014
All Soft Nepal, Kathmandu, Nepal

- Designed, developed and implemented web applications utilizing PHP, Python, WordPress, MySQL, AJAX and JavaScript frameworks.
- Performed unit testing, integration, user testing, performance analysis and documented the results.
- Connected applications with third party API's and services.
- Created database objects such as tables, views, store procedure, triggers, functions indexes, etc.
- Designed and developed websites on ASP.NET framework through agile development methodology.
- Collaborated with front-end developers to integrate user-facing elements with server-side logic.
- Testing websites for cross browser compatibility and fixing bugs and errors.
- Created a work flow using technologies such as GIT to develop multi-programmer

PROJECTS

- Distinguished between hand written numbers using singular value decomposition and wavelets transform.
- Designed an algorithm to extract Morse code signal mixed in an audio signal using spectral waterfall analysis and filtering in MATLAB
- Calculated the average diameter of the bacteria from the two-dimension microscopic image using one-dimension Fast Fourier Transform.
- Implementation of L1 norm regularization algorithm to reconstruct audio signal.
- Mario Game using SDL graphics library in C++.
- Developed online web-based examination and discussion forum for school using Laravel Framework, jQuery and Bootstrap 3.

SKILLS

- **Programming**: *C, C++, C#, Python, PHP, T-SQL,* JavaScript, *ORACLE Android, JAVA, SQL, MongoDB, Linux*
- **Web Technologies:** .NET, WordPress, jQuery, Angular JS, Node.js, Firebug, AWS, Bootstrap, Google APIs, XML, VCS: Git
- **Data Science:** Data Mining, Exploratory Analysis, Model Evaluation, Feature Engineering, Data Warehouse, Enterprise Reporting

TRAININGS

- **Windows Store App Development**: Making Custom Christmas Card using Visual Studio, C# .NET
- **Desktop Application with C#:** Windows form-based application with a database designed for eye care clinic
- **Android Application Development:** Unique code generation and offline verification

HONORS AND AWARDS

- **Engineering Dean Scholarship,** Masters**,** University of Houston　　2016
- **Full tuition waiver and "College Fellowship Scholarship**, Undergraduate, Tribhuvan University　　December 2010 – December 2014
- **Best Project Award,** Undergraduate, Tribhuvan University　　2014