

David Bhattarai

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OBJECTIVE

Accomplished computer science college graduate seeking challenging software development career that offers opportunity to apply technical, analytical, communication, and team work skills towards an organization's success.

EDUCATION

Bachelor of Science, Computer Science - Minor in Mathematics

SOUTHEASTERN LOUISIANA UNIVERSITY, Hammond, LA. Graduation Date: May 2013

Major GPA: 4.0, Overall GPA: 3.860

Coursework Includes: Machine Learning, Software Engineering I, Probability and Statistics, Data Structures, Database Systems, Applied Linear Algebra, Foundations of Discrete Mathematics, Calculus III

Computer Skills: Java, Android, PHP, C#, MATLAB, R, JavaScript, Python, LINUX, FORTRAN, COBOL, C++

WORK EXPERIENCE

Amedisys Home Health and Hospice, Baton Rouge, LA. Spring 2013 – Present

Software Developer Analyst – Mobile Technologies

- Conduct research on presently available mobile technologies
- Evaluate native and multi-platform frameworks

Southeastern Louisiana University. Fall 2011 – Summer 2012

Research. Dr. Aron Culotta. Department of Computer Science and Industrial Technology

- Assisted with research on natural language processing to infer user sentiment on Twitter trends.
- Analyzed Twitter user credibility to create focus groups for sentiment analysis.

Southeastern Louisiana University. Summer 2012 – Fall 2012

Internship. Center for Faculty Excellence

- Worked on web-based rubric system to speed up the process of new course approval.

Southeastern Louisiana University. Spring 2010 – Spring 2011

Research. Dr. Sanichiro Yoshida, Department of Physics and Chemistry

- Wrote programs to analyze the interferometric data of metal under stress.
- Published work in "Optical Measurements, Modeling, and Metrology 5" (2011). Pages: 75-81.

Danfe Labs. Spring 2012 – Present

Android Application Developer. Amit Regmi. Chief Technologist.

- Developed and tested various COCOS2Dx games and native Android applications.
- Published 'NepNews', a Nepali News aggregator, in Google Play Store.

CLASS PROJECTS

VODOAT: Developed a parking lot monitoring system using image processing and machine learning. Used Support Vector Machine to predict vehicle occupancy. Manipulated and normalized data samples for consistency throughout system. *Skills used:* Machine Learning, Image Processing, Python, PHP and JavaScript.

KeepNEye: Developed C# motion detection application to alert user in case of a security breach. Ability to stream live video and control remote web-camera from any Android device. *Skills used:* Software Design, C#, Android and Java.

Musical Pattern Recognizer: Used Machine Learning techniques to find out and visualize patterns in popular music. *Skills used:* Clustering algorithms, Discrete Fourier Transformation, Python and MATLAB.

High Speed Photography: Built custom hardware configuration to trigger camera from a collection of active sensors. *Skills used:* Hardware programming, electronic circuits and C#.

AWARDS and ORGANIZATIONS

President's List (Fall 2009 – Present); Dean's List (Fall 2009 – Present); Progression Scholarship (Fall 2010 – Present); Star Grant (Fall 2011); Guitar Club; Nepali Students at Southeastern