DIWAS TIMILSINA

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EDUCATION

Williams College, Williamstown MA — Expected: June 2016
B.A. in Computer Science & Mathematics
Dean's List: Fall 2012 - Current
Class of 1960's Scholar for Computer Science: Spring 2014, Fall 2014

Budapest University of Technology and Economics, Budapest, Hungary — Spring 2015
Spring Semester Abroad in Computer Science

PROGRAMMING PROJECTS

- **Dining Hall iOS App**: Developing an iOS mobile application for the dining halls of Greenwich Academy and Brunswick School. The application will be available on Apple's app store by the end of summer 2015.
- **Regular Expression Library in Swift**: Wrote a regular expression wrapper library in swift.
- **Web Analyzer**: Developing a Google chrome extension that will allow users to visualize the time they spend of different websites.
- **Procedurally Generated City Model**: Wrote a procedural city model generator in G3D, a commercial grade C++ 3D engine.
- **Procedurally Generated Map of Mirror's Edge Game**: Wrote a procedural map generator for Mirror's edge game.
- **Machine Learning Library**: Implemented the following machine learning algorithms: Naive Bayes Learner and Classifier, Linear Regression of real values, Back-propagation algorithm with one hidden layer, Ada-boost algorithm to train any weak learner, and K-means algorithm.
- **ARM Virtual Emulator**: Implemented a virtual emulator for a RISC processor called WArm (Williams Academic RISC Machine) on a CISC processor called WIND (Williams Instructional Demonstrator) to simulate the program execution on a RISC processor.

EXPERIENCE

· **Machine Learning and Natural Language Processing Research Intern** — Jun 2015 - Aug 2015
Acadian Asset Management, Boston, MA
- Designed sentiment analysis tools and machine learning models to analyze the forward-looking statements in the MD&A section of the corporate annual financial filing.

· **Summer Research Intern** — Jun 2014 - Aug 2014
Williams College Computer Science, Advisor: Duane Bailey
- Completed preliminary design to build a machine that looks like a multi-core processor, but the processing nodes are FPGAs that can be programmed to implement a particular computation.
- The work will be continued as honors thesis starting Fall 2015.

· **Web Application Developer** — Sept 2013 - May 2014
Art of Stats Website — artofstat.com
- Developed different stats applications for the Art of Stats website started by Prof Bernard Klingenberg from Williams College Stats Department.

· **Web Developer and Vice President** — Sept 2013 - Current
Williams Student Online (WSO) — wso.williams.edu
- Maintain WSO website, one of the nation's oldest online student communities, that is used by Williams College community for communication and discussion purposes.

· **Teaching Assistant, Williams College** — Feb 2013 - Current
- Multi-Variable Calculus (MATH 150), Advanced Programming and Data Structures (CS 136), Linear Algebra (Math 250), Computer Organization (CS 237), Algorithm Design and Analysis (CS 256), Theory of Computation (CS361)

PROGRAMMING LANGUAGES SKILLS

Proficient in: Java, Python, Swift, JavaScript, C, C++
Significant familiarity with: Scala, Objective-C, ML, Lisp

OTHER INTERESTS

Playing and Watching Soccer, Reading History, Learning Physics, Cooking, and Traveling