Tanawat Khunlertkit

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EDUCATION

University of Wisconsin-Milwaukee, Milwaukee, WI

Ph.D. Computer Science

Date of Graduation: Expected May 2019

Dissertation Thesis: Using patient database for statistical analysis in order to predict

the length of hospital stays of the individual patient based on the

current condition

University of Wisconsin-Milwaukee, Milwaukee, WI

Master of Science in Computer Science

Date of Graduation: December 2012

Research Objective: Implementation of security protocols on Vehicle-to-Vehicle Com-

munication. Timing comparison between Elliptic Curve Cryptog-

raphy and Advanced Encryption Standard.

University of Wisconsin-Madison, Madison, WI

Bachelor of Science in Computer Engineering and Computer Science

Date of Graduation: December 2009

WORK EXPERINECE

Fall 2012 Teaching Assistant

- Present

University of Wisconsin-Milwaukee

Plan and develop curriculum, along with other teaching materials, for lab sessions. Supervise graduate students on semester projects. Classes include:

- Software Engineering (Spring 2014 Present): Develop weekly activities for students and supervise students on Software Design Pattern.
- Intermediate Computer Programming (Fall 2013): Based on Java programming language using classes, inheritance, exceptions, and simple Graphical User Interface.
- Introductory to Computer Programming (Fall 2012 Spring 2013): Basic Concepts of programming languages.
- Introduction to Web Document Production (Spring 2013): HTML and CSS.

Summer

College for Teens/College for Kids Program

2014

University of Wisconsin-Milwaukee

Develop and teach courses related to computer programming design for high school students. Courses include:

- Create Your Own Computer Games: creation of Pong and Alien Invasion using Visual Basic.
- Programming Language: Basic syntax and logic for programming in Java
- Design Your Web page: Using the mixture of Dream weaver and HTML to create a simple web page.

Summer

Project Assistant

2007

University of Wisconsin-Madison

Java programing of Monte Carlo Simulation to identify optimal joint fixtures for automotive assembly line.

ACADEMIC ACHIEVEMENTS

Spring 2013 CEAS Dean's Scholarship

- Spring 2015 Scholarships are given to assist CEAS faculty in recruiting talented students by

offering multi-year support to new exceptional graduate students.

Fall 2011 Chancellor's Graduate Student Awards

Awards are given to one of the best students who shows great potential.

ACADEMIC EXPERIENCE

Spring 2011

Spring 2015 Neural Network and Brain Modeling

Using Neural Networks and the concept of Principle Component Analysis as a machine learning algorithm to recognize digital hand-written numberics.

Spring 2013 Information and Coding Theory

Implementation of Huffman Coding Compression based on the given text input

written in Java.

Fall 2012 Android Programming

Programming android device to work with micro controller via Bluetooth. Commands include reading the potentiometer and reading the temperature on the em-

bedded system written in C.
Computer Networks Laboratory

Asterisk phone server on Linux router using Session Initiation Protocol (SIP).

Fall 2010 Software Engineering

Music Player in Java. Features include drag-and-drop play list from a text file.

Spring 2009 Embedded System Design

Stepper Motor Controller Design written in Verilog, Implemented on ARM-FPGA board, to be integrated with other components.

Spring 2009 Intro to database Management System

Design Back-end for a Simple Database System written in C++.

Fall 2008 Digital Design and Synthesis

Design Calibrated Temperature Integrated Circuit using Verilog and Synthesize with Synopsys.

Fall 2008 Intro to Programming Languages and Compilers

Conversion from high level programming language (C) to Assembly language (MIPS).

(MIPS).

Spring 2008 Introduction to Operating Systems

Simulator for comparison of CPU Scheduling Algorithms (Clairvoyance and Priority

Queue) written in C.

Fall 2007 Introduction to Computer Architecture

Design a 16-bit Microprocessor with 16 instructions set written in Quartus.

SCOPE OF EXCELLENCE

Computer Languages: Python, Java, C, C++, HTML and CSS, SQL, Go, MATLAB.

Assembly Language: ARM7TDMI, MIPS. Hardware Language: Verilog, Quartus.

Operating Systems: Windows, Linux, Mac OS.

Languages: English (Fluent) and Thai (Fluent).