Tanawat Khunlertkit

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Software Engineer

Core Competencies

Go · Python · Java · C · C++ · SQL · JavaScript
ARM7TDMI · MIPS · Verilog · Quartus
Redis· Docker · Git
English · Thai

Work History

Summer 2018 **Mitel Networks Corporation** Milwaukee, WI
Developed Internet Of Things platform as a service. The platform allows users to create a network of devices that send data to the server and sends alerts if the reading values exceed a certain threshold. My prinmary contributions include analysis rules platform that can be configured by the user for devices to be evaluated when the server received the data.

Summer 2014 **College for Teens/College for Kids Program** Milwaukee, WI
University of Wisconsin - Milwaukee
Develop and teach courses related to computer programming designed 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 Dream weaver and HTML to create a simple web page.

Summer 2007 **Project Assistant** Milwaukee, WI
University of Wisconsin-Madison
Developed a Java program of Monte Carlo Simulation to identify optimal joint fixtures for automotive assembly line.

Education

2013 - 2019 **PhD Computer Science** Milwaukee, WI
University of Wisconsin - Milwaukee
Quality of Life Prediction: Using patient database for statistical analysis in order to predict the length of hospital stays and the probability of readmission within 30 days of discharged based on the current condition of the individual patient.

2010 - 2012 **MS Computer Science** Milwaukee, WI
University of Wisconsin - Milwaukee
Security Protocols on Vehicle-to-Vehicle Communication: Implementation and timing comparison between Elliptic Curve Cryptography and Advanced Encryption Standard.

2007 - 2009 **BS Computer Engineering and Computer Science** Madison, WI
University of Wisconsin - Madison
Senior Project: Stepper Motor Controller. Design and written in Verilog. Implemented on ARM-FPGA board, to be used as the basis for a wirelessly controlled turret.

Teaching History

2010 - Now **University of Wisconsin - Milwaukee** Milwaukee, WI
Plan and develop curriculum for lab sessions of Software Engineering, intermediate programming using Java, and client-side application development. Grader for additional five courses including computer architecture, computer networks, algorithm design and analysis, and operating systems.