XI HE

Portfolio: http://xismartelf.github.io/pages xh243@cornell.edu - (402) 318-1067

EDUCATION

Cornell University, Master of Engineering in Electrical & Computer Engineering, GPA: 3.38 May 2015

Course: • Artificial Intelligence • Cloud Computing • Large-scale Information System • Computer Vision • Software System Security • Software Engineering • Computer Networks

University of Nebraska-Lincoln, B.S in Electrical Engineering, GPA: 3.87 Dec 2013

Dean's List – All semesters and High Scholar Honor student

TECHNICAL SKILLS

Specialty: • Java, C# .NET • Cross-platform Software Development • Web Application Development

Programming Languages & Frameworks:

- C# / ASP.NET, VB.NET
- JavaScript, HTML5, CSS
- UNIX Shell, Linux
- Java / Android Development
- C, C++ / OpenCV
- MySQL, Microsoft SQL Server
- LabVIEW / Automation
- Python / Pygame
- Matlab / Simulink

WORK EXPERIENCE

Cornell Dyson School of AEM, *Web Application Developer,* Ithaca, NY Sep 2014 – Present

- Developed both of front end and back end of websites for New York Grape Cost Projection project from the ground up using C#, ASP.NET, JavaScript, HTML5, CSS, and Microsoft SQL Server

General Electric, *Software Engineer,* Atlanta, GA Jan 2014 – Aug 2014

Quality Group Database Windows App V1.0 (Released)

- Developed the app in C#.NET and Microsoft SQL Server, and made requested upgrades from client

TestmateV1.3 - Smart Meter Test Automation Software (Released)

- Upgraded the software features, migrated the software from XP to Windows 7 with GE India team, and installed the system at several plants

ANSI Meter Customer Test Report Generator V1.1 (Released)

- Created the software using VB.NET to automatically generate detailed test report and a new library using MS Office API for future office automation software development (GE High level of Simplification Savings award)

General Electric, *Test Automation Intern*, Atlanta, GA May 2013 – Aug 2013

- Completed the design of the Smart Meter Firmware Test Automation system with GE India team using LabVIEW, ActiveX, .NET, Batch processing, KVT scripts, Metermate, and C++ DLL
- Led the creation of Atlanta meter firmware automation testing capabilities

UNL EE Department, *Undergraduate Research Assistant*, Lincoln, NE Aug 2011 – May 2013

- Developed firmware of F2812 digital signal processor in C and Matlab Simulink
- Designed the wireless communication system between dSPACE and digital signal processors

SELECTED PROJECTS

Cloud and Smartphone-based Home Security System (*Java, C++*) Jan 2015 – Present

- Implemented the remote message alert feature using Google Cloud Messaging for Android API
- Creating object detection computer vision algorithm and real-time video streaming monitoring feature through RTSP protocol in WAN for android phones and home central control computer.

Smartphone-based Building Indoor Tracking (*Java, Python*) Aug 2014 – Dec 2014

- Developed the Client-Server architecture using TCP/IP socket programming for android phone (client) and server computer, and implemented the Wi-Fi fingerprint weight-centroid localization algorithm

Unbeatable Tetris Player with AI - Web Game (*JavaScript*) Sep 2014 – Dec 2014

- Implemented the Tetris feature AI algorithm and Particle Swarm Optimization method for agent Intelligence

Hand Gesture Tracking and Segmentation (*C++ / OpenCV*) Aug 2014 – Dec 2014

- Created the robust computer vision hand search algorithm, and created accuracy test scripts

Hong4Poker Game (*Java / Android*) Mar 2014 – Aug 2014

- Designed and implemented the android game scheme, game algorithm, and NPC intelligence

HONORS

• Oskar Edison Student Support Fund • Milton E. Mohr Research Scholarship • Hyde Scholarship
• University Creativity Academic Research Experience (UCARE) funding • Holling Mem. Scholarship-Engineering