

EDUCATION

Cornell University, Master of Engineering in Electrical & Computer Engineering, GPA: 3.38 May 2015
Course: • *Cloud Computing* • *Artificial Intelligence* • *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 • Software Development • Web Application / Distributed System / Cloud Service

Programming Languages & Frameworks:

- C# / ASP.NET, VB.NET
- JavaScript, HTML5, CSS
- UNIX Shell, Linux
- Java / Android /J2EE
- 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

- Developed the app in C#.NET and Microsoft SQL Server, and made requested upgrades from client TestmateV1.3 - Smart Meter Test Automation Software

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

ANSI Meter Customer Report Generator V1.1 (GE High level of Simplification Savings award)

- Created the software using VB.NET to automatically generate detailed ANSI customer test report and a new library using MS Office API for future office automation software development

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 Anti-Theft System (*Java, C++*) Jan 2015 – Present

- Implemented the remote message/photo 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
- Association of Students of the University of Nebraska (ASUN), Representative