XI HE

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EDUCATION

Cornell University, Master of Engineering in Electrical & Computer Engineering expected: 5/2015

Course: • Artificial Intelligence • Cloud Computing • The Architecture of Large-scale Information System • Parallel Computing • Computer Vision • Software Engineering • Computer Networks

University of Nebraska-Lincoln, B.S in Electrical Engineering 12/2013

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 /JQuery, 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 9/2014-Present

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

General Electric, *Software Engineer,* Atlanta, GA 1/2014 - 8/2014

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. GE high level of Simplification Savings award)

- 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

General Electric, *Testing Automation Intern*, Atlanta, GA 5/2013-8/2013

- 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 8/2011–5/2013

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

SELECTIVE PROJECTS

Smartphone-based Building Indoor Tracking (*Java, Python*)

- Developed the Client-Server system architecture using TCP/IP socket programming for android phone (client) and server computer (server)
- Implementing the machine learning algorithm (KNN) on Wi-Fi data training for accuracy

Unbeatable Tetris Player (*JavaScript*) Web game with Artificial Intelligence and Machine Learning

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

Hand Gesture Tracking and Segmentation *(C++ / OpenCV*) – *Final poster competition second place*

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

Hong4Poker (*Java / Android*) Android poker game app

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

Automated Batch Coin Dates Reader (*LabVIEW, C*) *- IEEE Region 4 Senior Design Competition second place*

- Developed the pattern matching computer vision algorithm and the software that controls machine firmware

HONORS & ACTIVITIES

• 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