

Yang Lu

Software Engineering 2A
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SKILLS

Proficient: C, C++, Java, T-SQL
Experienced: HTML5, Javascript, RobotC, Flash(ActionScript)
Platforms: Windows, Linux, Android, Chrome (extensions)

TRAITS

Keen Learner – always ready to solve challenging problems
Organized – good time management, task prioritization, and version control
Open-minded – open to suggestions and view everything as a learning opportunity
Creative – can see new approaches to old problems
Social – great at communicating ideas or proposing resolutions to issues

EXPERIENCES

Ontario Shores Center – Business Intelligence Developer
May 2016 – August 2016

- Created SQL scripts, views, functions, tables, etc. in SQL Server Management Studio
- Built reports and templates with drill-throughs, menus, tabs, and user parameters in Visual Studio
- Communicated with supervisors and managers to push for higher utilization of technology in a very non-technical and traditional environment. Sped up report delivery from weeks into mere minutes as a result
- Interacted with hospital staff for user feedback and incorporated requests while maintaining system integrity

Below the Cup, Junior Achievement Company — CTO
September 2014 – February 2015

- Short term Start-up Company comprised of students to experience the corporate process
- Elected as CTO and led my own department
- Designed and built the company website from scratch, integrated HTML to synchronize with twitter feed
- Wrote shareholder and department reports

Telus SPARK, the Science Center — Volunteer Facilitator
May 2012 – July 2015

- Total of 450 hours of volunteer work
- Deconstructed, modified, and then reconstructed a variety of electronics for demonstrations and experimentation by guests of the science center
- Monitored exhibits, answered scientific inquiries
- Coordinated lab experiments and group activities

HACKATHONS

Hack the North 2016 – September 2016

- AR Android shopping app
- Take a picture of merchandise and it will analyze the image, display a price tag with Bitcoin as well as local currency, and then process the payment for faster checkout
- Google Cloud Vision, Firebase, XE, Coinbase, Android

MLH Spring Finale 2016 – August 2016

- Wearable tech to allow mouse cursor control without using your hands
- Arduino attached to a pair of glasses. It translates gyroscopic data from tilting the head into Y and Z axis movement which corresponds with the cursor location on the screen
- Android, BluetoothLeGatt, Firebase

Watson IoT Hackathon – July 2016

- Top 5, reactive tour guide software
- User passes by sensors in a mock exhibit, then the data gets piped to IBM's Watson AI who will google and text facts and information to the user's phone. You can also ask it questions like a real tour guide
- IBM Watson AI, Node-Red, Julia-Pi, Node-js, Twilio

PROJECTS

2-D Rubik's Cube Simulator

- Java using Netbeans & Eclipse IDE
- Expanded cube into 6 squares and the simulation is based on those
- Randomize cube, rotate the faces, tentative solving algorithm, undo and redo features, colored graphics

Kancolle – Secretary App (Android)

- Java & XML in Android Studio 2
- Assistant app for browser video game
- Set expedition alarms, store and use construction recipes, browse Kancolle articles, utilize interactive node maps