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SUMMARY

- An honor roll Business Information Technology (BIT) student at Red River College with many awards, scholarships and outstanding achievements
- A software engineer with an Electrical Engineering background and 1.5-year experience in a global company
- An active GitHub contributor and an excellent tutor with a passion in sharing his knowledge
- A fast learner, and a supportive leader with the ability to categorize and automate software development process
- Wide knowledge in various areas such as embedded systems, mobile platforms, database, web/application development, games and graphic designs
- Strong communication skills achieved from multi-cultural workplace (Chinese and German)
- Proven success in achieving outcomes under pressure managing multiple projects and responding to varying needs of multidisciplinary teams simultaneously

WORK AND RELATED EXPERIENCE

Researcher

June 2018 - Currently

ACE Project Space, Red River College, Winnipeg, MB, Canada

- Developed project objectives, workplans and implement strategy on the system architect
- Assisted the research team with the most difficult issues such as communications and protocols
- Researched and developed a Bluetooth plug-in for VR applications with Unity, Android Studio and Visual Studio

Peer Tutor

January 2018 - Currently

Red River College, Winnipeg, MB, Canada

- Assisted students with programming skills (Web Development 1, Programming 2)
- Identified and filled out the students' learning needs by reasoning and visualization

Technology Camps Instructor (3 days)

May 2018

Red River College, Winnipeg, MB, Canada

- Explained the technologies used in Web Development, Database. Networking and Web Security
- Led the discussion about ethical hacking and build up a simple website with database

Embedded Software Engineer

May 2016 – July 2017

HELLA, Ho Chi Minh city, Vietnam

- Offered a promotion and invited by Chinese engineers to be a team leader on Radio Frequency Receiver technology
- Performed software design, maintenance, bugs fix in 4 projects at the same time
- Completed one of Chinese customer projects from the first phase to the Start-Of-Production (SOP)
- Supported a German system engineer to debug remotely on the first demonstration of NFC in Germany

Embedded Developer

January 2014 – July 2014

VSKYLINE, Ho Chi Minh city, Vietnam

- Researched and developed embedded solutions in unmanned aerial vehicle (UAV) system
- Designed hardware schematics/layouts and software for UAV modules
- Performed system integration and testing on flying prototypes

Assistant Embedded Developer

July 2013 – February 2014

ROBOTECH, Ho Chi Minh city, Vietnam

- Developed embedded solutions for Radar trucks in the military industry
- Assisted the team on improving the performance of estimation algorithms

SKILLS

Unity Development

- Hands on experience with C# script in Unity
- 3D objects and common components such as physics and animations
- Developed cross platform with *.dll, *.aar and *.jar
- Deployed an VR game to Google Play

Mobile Development

- Java, XML and UI design (Android Studio)
- Deployed the applications to Google Play
- Analyzed, designed, and developed complex code bases, software systems, including API design techniques

Web Development and Database

- HTML, CSS, JavaScript, PHP, Razor
- React, ThreeJS, ASP.NET, Entity Framework, MVC
- Web services and HTTP protocol
- Service worker, Web application
- XML, JSON, Oracle/MS SQL, PhpMyAdmin, XAMPP
- Internet Security: SQL Injection, Cross Site Scripting

Application Development

- C#, VBA, XML and UI design
- .NET application development (Visio Studio)
- Experience implementing modular, testable, and robust solutions

Data Science

- Kalman filter (KF, EKF), Gradient descent
- Computer vision (OpenCV)
- Data encryption, signal modulation (RF)

Embedded Automotive

- Model base, manual code, code generation for all standard tools
- Module test, integration test, regression test
- CANoe, IAR, CppUTest, Tessa, Rhapsody, IBM DOORS
- Software Components: UDS Diagnostics, Active/passive Entry, UDS Diagnostics, RF receiver stack, NFC stack
- Basic Software: Diag Stack (DEH, IsoTP); System Stack (SysStateM, BleM, ucDrv, Gpt); Memory Stack (NvM); Io Stack (AdcDrv, DioDrv, SpiDrv, TauDrv)

Embedded System

- Control/Sensors: ultrasonic, EPPROM, DMA, gyroscope, accelerate-meter, magneto-meter, RF receivers, NFC, capacity touch sensor
- Protocol: UART, SPI, I2C, GPIO, SDIO, CAN, LIN

Embedded Software

- C/C++ and assembly (Keil, IAR)
- MATLAB m-script, model base and C-file generation for embedded applications
- Experienced in independently designing, developing and testing of software module level API's
- Developed configuration tools for different variants of an embedded platform

AWARDS AND HONOURS

Applied Computer Education Department Award

June 7, 2018

Applied Computer Education Department, Red River College

Criteria include a letter of recommendation from an instructor, a portfolio of work, a grade report, as well as an essay that describes the experience in the program, career aspirations, and include examples of class leadership.

Great-West Life Award

June 7, 2018

Great-West Life

Criteria include financial need, a strong academic record (minimum cumulative GPA of 3.00), as well as an essay or letter outlining volunteerism/community involvement.

School of Business and Applied Arts Bursary

February 16, 2018

Red River College

Red River College award endowment fund, established in part from contributions from the Province of Manitoba's Manitoba Scholarship and Bursary Initiative and from funds established at The Winnipeg Foundation.

Honor Roll Certificate - First Term, Second Term

December 15, 2018

Applied Computer Education Department, Red River College

GPA above 3.8: First term (4.45), Second term (4.20)

EDUCATION

Business Information Technology Diploma

August 2017 - Current

Red River College, Winnipeg, MB, Canada

Application Development, Database management, Web Development, Web Security, Technology in Business

Bachelor of Engineering

August 2010 - May 2016

HCM University Of Technology, Ho Chi Minh city, Vietnam

Electrical - Electrical Engineering, Electronics - Telecommunication, Embedded System Software and Hardware

VOLUNTEER ACTIVITIES

Education Assistant

March 2018 - Current

Red River College, Winnipeg, MB, Canada

Assisting the instructor in the course Network Computing 1, Data Management 2

Representor

August 27 2018

Orientation Day, Red River College, Winnipeg, MB, Canada

A new-students-welcome day with the campus tour and orientation session

Sessions Organizer

June 5, 2018 - June 6, 2018

Prairie Developer Conference, Winnipeg, MB, Canada

A 2-day event provided a high-quality professional development opportunity locally, without the high costs of travel and accommodation typically associated with remote conferences

Guest Speaker

May 24, 2018

The Campus tour, Red River College, Winnipeg, MB, Canada

A day tour where international and ESL students come to see the college's facilities and the college lives.

Session Organizer

April 12, 2018

DigiGirlz Day 2018, Microsoft, Winnipeg, MB, Canada

A great event hosted by Microsoft that RRC have had the fun and privilege to assist with for several years.

Project Team Leader

January 2018 – February 2018

Canadian Inventory Project, ACE Project Space, Red River College

An Android project sponsored by RRC to improve an inventory system in Canadian stores

Workshop Organizer

March 2018 - April 2018

Unity Workshops, New Media Manitoba

Series of workshops held by Dylan Fries biweekly to introduce Unity developers' skill sets

Student Representative, Activity Facilitator

February 20, 2018

RRC Open house 2018, Red River College

An event held by RRC to provide RRC's program tour

Note Taker

February 1, 2018

DisruptED 2018, Red River College

An event sponsored by leading institutes (University of Manitoba, RRC) and the giants in the industry (DELL, INTEL, CISCO, IBM), to explore the future of work.