DUY (JIMMY) NGUYEN VO

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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 automotive 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
- Proven success in achieving outcomes under pressure managing multiple projects and responding to varying needs of multidisciplinary teams simultaneously
- Strong communication skills achieved from multi-cultural workplace (Chinese and German)

SKILLS

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
- React, ThreeJS
- Web services and HTTP protocol
- Service worker, Web application
- XML, JSON, Oracle 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

Game Development

- Hands on experience with C# script in Unity
- 3D objects and common components such as physics and animations
- Deployed an VR game to Google Play

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, Tessy, 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

Embedded Hardware

- Designed 2-layer PCB layout and schematic
- Proficiency in the use of soldering and measurement equipment such as oscilloscopes and logic analyzer

WORKS AND RELATED EXPERIENCES

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
- Instructed the children to build up a simple website with database, and enhance the web security

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 and layouts; soldered printed circuit boards
- Developed embedded 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

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 - March 2014*

HCM University Of Technology, Ho Chi Minh city, Vietnam

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

AWARDS AND HONOURS

Applied Computer Education Department Award *June 7, 2018*

Applied Computer Education Department, Red River College

Great-West Life Award *June 7, 2018*

Great-West Life

School of Business and Applied Arts Bursary *February 16, 2018*

Red River College

Honor Roll Certificate - First Term *December 15, 2018*

Applied Computer Education Department, Red River College

VOLUNTEER ACTIVITIES

Education Assistant   *March 2018 - Current*

Red River College, Winnipeg, MB, Canada

Assisting the instructor in the course Network Computing 1

- Indicated the issues, helped students with troubleshooting and explained network behaviors
- Helped students with Cisco Lab exercises in Open Lab periods

Sessions helper   *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

- Answered questions at the welcome booth
- Ensured the machines worked properly during the presentations

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.

- Invited to come and discuss about the courses and the difficulties of international students at RRC
- Gave advise to ESL students about what they could do to prepare for the courses

Session Helper   *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.

- Robot Cars: Working with Adafruit Circuit Playground and some common household items, get an introduction to programming and electronics.
- Cognitive Thinking: Assist students through a series on non-technical activities to illustrate how they use critical and creative thinking.

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

- Led the team on the software architecture and kept the software clean and maintainable
- Trained the team members on Android development and new technologies

Workshop Assistant   *March 2018 - April 2018*

Unity Workshops, New Media Manitoba

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

- Set up training materials

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

- Prepared LEGO Mindstorms demonstration
- Represented RRC's students to answer CTV interview questions about LEGO Mindstorms
- Led the Coding-And-Networks-Games room, introducing high school students to basic concepts of programming

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.

- Hosted an unconference on how to bridge the digital divides
- Took notes in the unconference and reported to the event coordinator