







# DUY (JIMMY) NGUYEN VO

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## SUMMARY

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- A Red River College(RRC) student with all As (GPA: 4.23)
- A flexible, 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 and application development with one-year experience as an automotive software engineer in a global company
- Strong analytical, problem solving, decision making, organizational, time management and multi-tasking skills under high pressure (4 projects at the same time)
- Strong interpersonal and communication skills achieved from multi-cultural workplace (Chinese and German)

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## SKILLS

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### 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, ZWAMP
- 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

### Financial Accounting

- Understand business activities and financial accounting principles
- Hands on experience with Sage50

### 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)

### Data Science

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

### 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

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## WORKS AND RELATED EXPERIENCES

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### 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

May 1, 2018 - May 3, 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 integrated, to find security holes and to enhance the site 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
- Discussed with Chinese system engineers on the intermediate sleep/wakeup error that happened on some defective cars; convinced them to deal with the customer to accept my temporary solution to a bad hardware design existing from the first phase
- Supported a German system engineer to debug remotely on the NFC prototype
- Guided my team members remotely on the first demonstration of NFC in Germany

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## EDUCATION

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### Business Information Technology Diploma

August 2017 - Current

*Red River College, Winnipeg, MB, Canada*

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

### Electrical Engineering

August 2010 - March 2014

*HCM University Of Technology, HCM, Vietnam*

Electrical, Tele-communication Embedded System Software and Hardware

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## AWARDS AND HONOURS

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### 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

December 15, 2018

*Applied Computer Education Department, Red River College*

First-term GPA: 4.45

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## VOLUNTEER ACTIVITIES

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### 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

*DigiGrlz 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