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| **DUY (JIMMY) NGUYEN VO** | |
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| **SUMMARY** | |
| * 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** | |
| |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | |  | | --- | | **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** | |
| |  |  | | --- | --- | | **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** | |
| |  |  | | --- | --- | | **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** | |
| |  |  | | --- | --- | | **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** | |
| |  |  | | --- | --- | | **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 | | | |
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