

ZACHARY VAN NOPPEN

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EDUCATION

BACHELOR OF INFORMATION TECHNOLOGY

Sept. 2017 – Dec. 2022

MAJOR IN INTERACTIVE MULTIMEDIA DESIGN, Co-op Option,

MINOR IN COMPUTER SCIENCE

Carleton University, Ottawa, ON

Third Year Undergraduate, CGPA 9.2/12.0 (B)

Included on the Carleton Dean's List 2018

AVAILABILITY

Available for four months beginning May 2020

SKILLS AND ABILITIES

TECHNICAL SKILLS

- Proficient in several markup and scripting languages, using HTML, CSS, JavaScript, PHP, MySQL and PostgreSQL to create fast, secure web applications
- Developed software in modern frameworks, including React, Node.js and openFrameworks to create web applications that allow fast and responsive interaction
- Used Java, C, C++, C# and Python to create desktop applications with functions ranging from enhancing academic performance and self-discipline to video games
- Experienced in physical computing development, programming Arduino microcontrollers to create video game controllers and interactive displays for enhanced user interaction
- Deployed revision controlled changes to all projects using Git to allow smooth merging of code with team members

DESIGN SKILLS

- Created a database using MySQL devoid of anomalies or redundancies for secure interaction with a website.
- Proficient in Adobe Photoshop and Illustrator, creating mock-ups and assets for webpages and custom user interfaces
- Designed animations using Autodesk Maya and Adobe After Effects for theatre productions, web pages and short films, creating compelling visual for audiences

COMMUNICATION SKILLS

- Collaborated with peers by delegating tasks and explaining code written to group members while developing the computer vision portion of a motion tracking application
- Communicated project progress to an agile development team consistently to complete an Arduino game controller and minigame

- Corresponded with shipping services, manufacturers and clients via phone and email to organize the order and delivery of solar equipment

WORK EXPERIENCE

TECHNICAL SALES SPECIALIST

Sept. 2016 - Aug. 2017

Solacity Inc, Kemptville, ON

- Designed and sold solar systems to clients in store, over the phone and through email by evaluating individual situations to calculate the electrical load and the hardware required to supply it
- Learned VBA and PHP while on the job to debug WordPress plugin scripts and improve the company's invoice system
- Maintained the company's web-store by creating graphics in Photoshop, developing pages in WordPress

APPLIED PROJECTS

INDIVIDUAL PROJECT

Dec. 2018 – Present

Hide and Seek

- Built a project in C++ using OpenCV to create a depth tracking application that allows objects to be hidden and found by a camera based on a human position
- Created a user interface in openFrameworks for fast development and deployment

TEAM LEADER

Sept. 2018 – Dec. 2018

Hospital Database

- Created a database using MySQL to hold hospital information to be retrieved by a user through a webpage programmed in HTML, CSS and PHP
- Designed the relationships between each entity in the database, ensuring each item has no redundancies and creates no anomalies
- Managed the development team by explaining code, delegating tasks and communicating problems in order to receive relevant feedback and progress quickly

VOLUNTEER ACTIVITIES

VOLUNTEER

Sept. 2018 – May 2019

Carleton University, Ottawa ON

- Assisted instructors at the Virtual Ventures club to teach elementary, middle and high school students basic programming, design and problem-solving skills

EXTRA-CURRICULAR ACTIVITIES

- Attend the local gym and engage in weekly hockey and volleyball games
- Private tutoring for adults who would like to learn programming