

## **Arun Galva**

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[arungalva.me](http://arungalva.me)

### **EDUCATION**

**Bachelor of Engineering, Software  
Minor in Entrepreneurship, Co-op Option**

**September 2014 – present**

Carleton University, Ottawa, Ontario

- Second year standing - 10.56/12 CGPA (A-)
- Entrance scholarship 2014/2015
- Expected Graduation date: 2019

### **AVAILABILITY**

Available for four months starting May 2016.

### **Technical Skills**

- Proficient in Python, C, Java, HTML, JavaScript, CSS, PHP, MYSQL; learning x86 assembly language
- Solid understanding of both functional and Object oriented programming including UML and memory diagrams
- Working knowledge of MATLAB, IntellCAD, MAPLE and PTC CREO
- Competent with web and graphic design software including Photoshop, Illustrator and Dreamweaver
- Working knowledge of relational database structure
- Familiar with MVC concept and CodeIgniter PHP framework
- Considerable experience with windows and Android operating systems
- Working knowledge of Git version control system
- Experience with AMP stack (Apache, MySQL, PHP)

### **RELEVANT EXPERIENCES AND ACCOMPLISHMENTS**

#### **Technical Experience**

- Developed multiple websites for various clients as a freelance web developer
- Customized premade themes to suit the needs of the client using CSS and JavaScript
- Converted a text based image editing program from python lab to a GUI based image editor
- Programmed a computer program in Java that can be used for live real-time scoring for broadcasting of volleyball games

- Developing a website to aid sports club managers to pick teams for the games and communicate with the players effectively
- Designed a page to retrieve data about any YouTube video using Youtube's API
- Wrote a chrome extension to auto signup and login to a live TV streaming service

### **Communication and Leadership**

- Presented an engineering concept such as the photovoltaic effect to a non-technical audience
- Successfully wrote a research paper on the power source of space rovers for non-technical audience
- Led the Senior High School cricket team to their first ROPSAA championships in the school's history
- Started and managed a Radio club at High School to provide news and entertainment for students and teachers that arrive early to school
- Conducted practices for the junior kids at Ontario Cricket Academy when the coach was away on tours
- Initialed a Physics club in High school to discuss interesting physics related topics with other students
- Fluent in English, Telugu and Hindi (reading, writing and oral)

### **APPLIED PROJECTS**

#### **Volleyball scorer for live television broadcast**

- Collaborated with a partner to code a program in Java that can be used by broadcasters to score Volleyball games and display the score data in real-time to the viewers
- Coded the model and the controller parts of the MVC pattern that was used in the project
- Effectively followed the software development cycle from requirement gathering to the implementation
- Designed UML diagrams, flow charts during the design phase and wrote documentation for the software after the implementation phase

#### **Defected washer detector**

- Collaborated with three other students to come up with a solution to detect defected washers for a washer manufacturing company as part of the 2015 Software Engineering competition at Carleton University
- Brainstormed creative ways to effectively detect defected washer from pictures taken from a conveyer belt
- Coded a function to dynamically export the results into an excel file
- Prepared the presentation that was used to present the solution to a panel of judges
- Effectively used git to collaborate with the team in order to complete the task in under 8 hours
- Tested the code multiple times under various conditions to make it error prone and user friendly
- Wrote the documentation for the code to help the users and the judges effectively use the program

## Developed Websites

- **iqustededucation.com**
  - Customized a WordPress theme to the liking of the client to create a simple and elegant website for client's summer camp
  - Designed the graphics for the website using Photoshop
  - Recommended few features to help client make full use of the website to attract more customers
- **Car Rental Website**
  - Designed and developed a hybrid car rental site from scratch for a new car rental company
  - Communicated with the client on a daily basis to keep them in the loop of the process and to make sure they are feeling satisfied with the product
  - Coded the site front-end of the application with HTML5, CSS3 and JavaScript (jQuery)
  - Used bootstrap and media queries to make the website responsive
  - Wrote MYSQL queries to retrieve the information of the cars onto the webpage
  - Designed and developed a simple admin panel with a data table to allow the admin to edit the details of the cars
- **Developing websites**
  - A website that allows sports club members to communicate team selections effectively
  - Wrote PHP scripts to scrape the team schedules and standings from the league's website
  - Used MVC concepts and CodeIgniter framework to develop neat and maintainable code
  - Wrote MYSQL queries to constantly retrieve and update the data from the database
  - Developed relational database Schemas to organize different data on various players of the club