

## EXPERIENCE

### **Johnson Controls, Mumbai**

July 2015 - Aug 2016

*Graduate Engineer Trainee, Technology*

Worked with the Metasys UI team in developing cross-platform web application to take advantage of HTML5 and jQuery UI.

- Rewrote the legacy code which doubled the application's response time.
- Designed and developed Snapping Feature following the best software design principles.
- Developed JavaScript components including Editor's Path Tool, element animation.

### **GraVITas, VIT**

September 2012

*Volunteer, Technical Committee*

- Designed event posters and banners using Adobe Photoshop
- Developed web application displaying a student chapter events and activities for the course of the tech fest.

## TECHNICAL SKILLS

**Programming Languages** - C, C++

**Scripting Languages** - Bash, Python

**Web Technology** - HTML5, CSS3, JavaScript, jQuery, SASS

**Database** - MySQL, MongoDB

**Platform** - Linux, Windows

**Tools** - Git,  $\text{\LaTeX}$ , Adobe Photoshop

## PROJECTS

### **Codepile**

Nov 2016 - Present

*Data Structures and Algorithms*

A repository of generic data structures implemented using templates in C++. The algorithms have been implemented using STL incorporating the best practices of Modern C++.

<https://github.com/11Ujjawal/codepile>

### **cBits**

Nov 2016 - Present

*Twiddling, Fiddling, Befuddling Bits*

Collection of bit manipulation hacks in C demonstrating implementation optimization. The repository illustrates its application in producing order-of-magnitude improvement in both speed and size.

<https://github.com/11Ujjawal/cbits>

### **eMed**

Jan 2015 - May 2015

*EEG Based Hospital Automation System*

A hospital automation application developed in C++ for patients suffering from Locked-In Syndrome. Demonstrated a prototype that provided easy integration with the Emotive EEG neuro-headset to monitor and control different domestic devices.

## EDUCATION

### **Vellore Institute of Technology, Vellore**

July 2011 - May 2015

Bachelor of Technology, *Electronics and Instrumentation*

## COURSEWORK

Data Structures, Algorithms - Design and Analysis, Operating Systems, Advanced Computer Networks, Unix Programming, Database Systems

## ACHIEVEMENTS AND AWARDS