# RUPALI  ROY  CHOUDHURY (MS)

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## EDUCATION

**National University of Singapore (NUS)**                                    **Aug 12 – May 16**

- Bachelor of Engineering (Computer Engineering)
- Modules taken: Web Programming (CP3101B), Software Engineering (CS2103)

**Nanyang Technological University (NTU), Student Exchange Programme          Jan 15 – May 15**

## COMPUTING SKILLS AND KNOWLEDGE

- **Programming languages:** C++, C
- **Web development languages:** HTML5, CSS, Javascript, Json, NodeJS
- **Frameworks:** Bootstrap, AngularJS, JQuery
- **Other knowledge:** MySQL, Google Charts, Objective-C, PHP, Java
- **Software**: WebStorm, Text Sublime, Visual Studio, Eclipse, Xcode, MS-Word, MS-PowerPoint

## INTERNSHIPS

**Ambient Intelligence Lab, Interactive and Digital Media Institute, NUS          May 15- Jul 15**

**Enhancing UI/UX features for NUS Navigation iOS mobile application**
- The lack of location based information application has caused inconvenience among visitors and first year students in NUS. Therefore "NUS Navigation" application solves this problem by providing outdoor as well as indoor navigation within NUS campus.
- Conceptualizing new features, enhancing the usability, resolving issues were the major tasks for the internship.

**Autodesk Asia Pte Ltd, Software Developer Intern for ACAD Web Platform          Jul 14- Dec 14**

**Performance Benchmark for AutoCAD Web**
- Tasked to explore any performance benefits of using a new technology for a direct conversion from C++ to Javascript, which is rendered on the web.
- Worked with 2 software engineers to conduct experiments to verify the above objective and got tangible benefits from it.
- Implemented extra features for Benchmark Dashboard, which depicts the performance of file open operation visually, under the guidance of 1 software developer.
- Scrum meetings were held thrice a week to discuss about current progress, work to be completed, problems faced during tasks.

## PART-TIME JOB

**Lab Teaching Assistant, NUS**                                    **Aug 15 – present**

- Educated 23 Engineering students on new C programming topics and possible problems that could be faced during coding exercises every week.
- Provided feedbacks to students individually in order to enhance their learning experience. Improvements could be seen in their subsequent works.
- Guided, offered hints and demonstrated debugging skills to students when they have doubts. As a result, it increased their ability to approach and tackle questions in a better way.

## COMPETITION

**Singapore Geospatial Challenge 2015**                                    **May 15- Jul 15**

- The objective of the challenge is to introduce sensor technology to the students and give them opportunities to explore innovative ideas using Geographic Information Science and Technology (GIST) as part of the national effort of moving Singapore towards becoming a Smart Nation.
- Competed with 5 other teams from the University category.
- The aim of the project is to enhance park visitor's experience by recommending best spots and facilitate park planners in evaluating and promoting optimal park utilization. Detailed work is available at : http://geodezign.weebly.com/
- Secured Award of Distinction, Award for Best Team Photo, Award for the Most Popular Showcase for the challenge. We were the only team from the University category to win more than 1 award.

## PROJECTS

**Task Scheduler System, CS2103**

- "Next Sun", an efficient task scheduler system, is for users to maintain and remember their daily timetable with ease. It is a text-based input, which simplifies the process of managing the tasks by minimizing the number of clicks for an operation.
- Actively contributed on the "Storage" component of the project. The storage component is responsible for handling the internal storage of tasks. The tasks in the vector are arranged in ascending order of deadline so that when the tasks are displayed, the ones with closest deadline are displayed first.

**ToDo Application, CP3101B**

- The ToDo web application is targeted at tasks that can be broken down into manageable, well-understood portions. The basic version of this application will allow each user to define a list of tasks they wish to finish.

## CO-CURRICULAR ACTIVITIES

**Autodesk Asia Pte Ltd, NUS Open House Organiser**                        **Aug 14**

- Worked with the HR and fellow interns to organise an open house event for NUS undergraduates at Autodesk, in order to get them interested in the company.
- Contacted students and briefed them about the administrative details of the visit.
- Played the role of an office tour guide for 10 students.

**NUS, Inter-Faculty Games Championships (IFG), Women's Soccer**            **Aug 13**

- Trained hard with team members to prepare for the matches and secured 3rd position in soccer out of 9 teams.

**NUS Computing Sports Camp, Organiser and Group leader**                  **Dec 12 - Jan 13**

- Worked with the Computing sports director in organising various sports camp events and was assigned as a group leader for a sports camp group of 10 participants.
- Ensured that all the participants were aware of the game rules, informed them about game progress and scores. As a result, participants were engaged in the game.

## PERSONAL INTERESTS

- Engage in jogging and cycling on a regular basis.