

Rajat Bansal

Software Developer | Software Engineering Student
Available for 4-8 months beginning May 2018

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Education

Carleton University | Bachelor of Engineering (B.ENG) Co-op, Software.

Sep 2015 - Present

- Second Year Undergraduate, CGPA 10.33/12
- Dean's Honour List 2015-18
- George Fierheller Scholarship 2016-17, 17-18

SKILLS AND ABILITIES

Technical Skills

Languages: Java, Python, C++, C, JavaScript, SQL, Assembly (8086 & HC12), HTML/CSS, JSON, XML

Development: XCode, Git, Agile, Jira, Confluence

Testing: Junit, Charles, Manual

Operating Systems: Windows, UNIX/Linux

Communication Skills

- Provided numerous product demonstrations for the project customer and senior management, highlighting functionality and project progress
- Collaborated in a group to improve a pre-existing vehicle patent and presented it to a professor and class of 30 students. Created a technical report outlining the basis of the improvements
- Independently handled the marketing and sales of Maple-Wood Craft through weekly community events and use of online media
- Demonstrated flexibility while working and communicating with a wide range of clientele in the fast paced environment of Canada's Wonderland

Analytical Skills

- Recorded and cataloged a backlog of over 300 bugs on JIRA and physical board for two applications
- Organized and distributed over \$10,000 based on specific criteria to various clubs and organizations
- Analyzed and effectively implemented ways to speed up loading/unloading of a roller-coaster at Wonderland
- Proficiently coordinated receiving and recording of large mixed content shipments through data sheet
- Effectively used excel to record debit and credit changes to my Summer Company business account

WORK EXPERIENCE

Software Developer (Co-op) | You.i Labs

January 2018 – Present

- Working on legacy C++ codebase for VOD applications on iOS, Android, TV and Roku

Math/Sysc Teaching Assistant | Carleton University

Sept 2017 - Dec 2017

- Teaching up to 50 first year engineering students Linear Algebra weekly, marking tests/exams and reporting to Professor Sadeghi.
- Overseeing up to 50 second year engineering students in their Fundamentals of Imperative Programming labs weekly as well as marking tests/exams and reporting to Professor Bailey.

Software Tester (Co-op) | You.i Labs

May 2017 - Aug 2017

- In a small team, conducted exploratory testing of apps and reporting using JIRA to increase stability of apps
- Acted as a liaison between developers and UX, maintaining a high level of quality assurance and matching contractual expectations
- Found hundreds of defect and user-experience issues, communicated them to a cross-functional agile team in daily scrums and planning meetings
- Performed daily C++ code reviews to ensure clean, high quality code that did not present potential new bugs

- Tracked and altered incoming web traffic/packets as well as JSON and XML files to app using Charles to add content and test backend
- Deployed apps such as FOX and Nat Geo Kids on iOS and Android devices

Ride Operator | *Canada's Wonderland*

May 2016 - Aug 2016

- Devised and executed new train loading and unloading process to increase ridership by 100 guests an hour
- Worked closely with supervisors to stay updated on new safety protocol and while on duty to ensure customer safety and satisfaction while operating various heavy machinery
- Worked in closely knit group setting including management to ensure productivity and consistent improvements to protocol and work setting

Owner - Maple-Wood Craft | *Summer Company*

Jan 2014 - Sept 2014

- Developed unique business platform to sell custom wooden items as a summer company through various community events and online media
- Created invoices and receipts in Excel to keep track of sales and expenditure to guarantee an accurate year-end report
- Effectively created weekly reports of business progress and accounts to

PERSONAL AND ACADEMIC PROJECTS

- Created in team of 3 a K-Nearest Neighbors machine learning framework in Java
- Using OpenCV in python, created scripts for real-time face, edge and object detection
- Basic file operations and memory management system in C for a simple OS

VOLUNTEER & EXTRA CURRICULAR

- SGF (Student Group Funding) Member, 2016-17

Served on committee responsible to hear 30+ presentations from various clubs and group associated with Carleton Engineering and allocate over \$10,000 in funds appropriately

- Intramural Volleyball, 2015-18

- Frosh Leader, 2016-2017

Served as the first impression for new students to promote and guide their transition to University
Managed and led a group of frosh to various events and orient students to facilities around campus

- *Village of Sandalwood (Senior Home) Program Councilor, 2012*

Gathered roughly 15 to 20 citizens of the home willing to participate in a social setting and independently ran and organized weekly activities