

Jacqueline Bermudez

Highlights

- Master of Science in Applied Computing
- Bachelor of Science in System Engineering

Technical Skills

- Programming languages: Java, JavaScript, JQuery, PHP, HTML, CSS, C, C++, Python, VB
- Tools: Adobe Photoshop/Illustrator, Visual Studio, Eclipse SDK, Microsoft Office, Web Servers (Apache Tomcat), Database Servers (SQL Server, MySQL)

Education

M.Sc. in Applied Computing

*University of Toronto
Toronto, Canada*

Jan 16
(expected)

Courses: Human Computer Interaction, Computer Graphics, Creative Applications for Mobile Devices, Special Topics in Computer Systems Cloud Computing, Communication for Computer Scientists, and Technical Entrepreneurship.

B.Sc. in System Engineering

*Universidad Americana, UAM
Managua, Nicaragua*

Dec 11

Courses: C Programming, Java Programming, Visual Basic .NET, MS SQL and MySQL, Operations Research, Marketing Management, Design of Computer Systems

Graduate Program in Safety of Data Communication Network

*Universidad Americana, UAM
Managua, Nicaragua*

Jul 12

Courses: CCNA Security

Professional and Technical Interests

Human-computer interaction, User Experience, Interaction Design, Educational Applications for Pervasive and Mobile Computing, Web Design, and Graphic Design.

Recent Projects

E-forum – Web-based forum (Currently working on this project)

Part of a research study that is being conducted in order to detect the level of motivation that patients with heart failure derive from interaction with a digital community.

An e-Forum (web-based platform) was established for patients with heart failure. Because the users are mostly elderly patients, a tailored interface was implemented with special requirements established by the research department which measure interaction.

Handy – Technology Entrepreneurship Project

Prepared the Minimal Viable Product (MVP) of a project concept. Research study, prototypes and usability testing was conducted. My group and I won the “best pitch” at Accelerator Centre, Waterloo.

Project concept: An app that centralize interaction between small businesses and their customers to obtain services.

MOTIVUS – Android App

The aim of this app was to develop a means of objectively assessing and encouraging motivated behaviour, specifically goal-directed activity, which involves setting and completing plans and goals.

iShop – Android App

A continuously context-aware shopping assistant mobile application that keeps track of the user’s location, reminding them of the time spent at the store and presenting the store membership cards.

Spiral lock – iOS App

A new locking concept to improve setbacks of two locks Pattern and PIN to determine a lead towards a more convenient and secure unlocking gesture. This project was presented at Research in Action (RIA) showcase.

Work Experience

May 15 -
Present

Internship – Web Programmer

Cardiac eHealth, Toronto General Hospital – Ontario, Canada

- Front-end web development
- Back-end web development
- Human-Computer Interaction research-driven principles

Sept 14 -
Present

Teaching Assistant for Operation Systems, Design of Interactive Computational Media, Computational Thinking

University of Toronto – Toronto, Canada

- Prepared and give tutorials for an average of 50 students.
- Marked students assignments

Oct 13 –
Jul 14

Smoke and Dye Co-ordinator, Environmental Intelligence

Cole Engineering Group Ltd. – Ontario, Canada

- Responsible for reviewing smoke testing data and coordinating smoke testing activities
- Supported project management activities for various projects by observing deficiencies and coordinating with project managers and field staff to improve monitored data

Jul 13 –
Oct 12

Intellectual Property Analyst

MDB Capital Group, LLC (Outsourcing from USA) – Managua, Nicaragua

In the United States, this company is Wall Street's only IP-driven public venture bank, launching disruptive technologies into the public markets.

- Performed and conducted research relating to patentability (novelty), validity and freedom-to-operate for avoiding fraud
- Drafted patent in applications, will full illustrations, in a variety of engineering and scientific fields
- Created manuals and guidelines such as: operations manual, platform's manual, guidelines on how to write a patent application, and guidelines on how to prepare information technology reports

Oct 12 –
Jun 11

Information System Analyst

INVERCASA - Managua Nicaragua

This company is a brokerage house with experience in the national market specializing in the field of advice on structuring public offers and financial engineering.

- Created technical software manuals, user's manuals, operation, policies, procedures manuals, and prevention plan guidelines
- Monitored and analyzed end-user needs in order to improve the technology infrastructure of the company
- Restructured databases to improve the data administration and repairing issues relating to data storage
- Provided help desk support to end-users in order to diagnose and troubleshoot system issues

Volunteering

May 15-
Present

Toronto ACM SIGGRAPH