

Brendon Xavier Faleiro

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ACADEMIC PROFILE

University of California, Los Angeles.
Masters in Computer Science.

Expected Graduation: March 2018
GPA: 3.43

Sardar Patel Institute of Technology, University of Mumbai, India.
Bachelors in Electronic Engineering.
Secured First Class with Distinction, Ranked 5/80.

2014
Aggregate: 74.07%

PROFESSIONAL EXPERIENCE

Graduate Teaching Assistant at University of California, Los Angeles.

January 2017

- Teaching Assistant for Logical Design of Digital Systems (CS M51-A) under Prof. Milos Ercegovac.

Senior Software Engineer at Diebold Systems Pvt. Ltd., Mumbai, India.

July 2014 – August 2016

- Optimized code, analyzed issues and fixed bugs in the existing legacy terminal application as a member of the application development team for the Automatic Teller Machine.
- Developed C# applications and worked on HTML, CSS and JavaScript updates for the browser display.
- Built Perl and Batch scripts to automate build processes and reduce manual efforts in log analysis and Rational ClearCase change set sharing.

ACADEMIC PROJECTS

Twisted Application Herd Server Prototype for Google Places API.

November 2016

- Implemented a configurable herd server in Twisted Python to maintain location updates from multiple clients with minimal database read/writes.
- Clients can connect to any of the servers and have quick response time without central server bottlenecks.

Morse code parser in Prolog.

October 2016

- Programmed a Morse-code parser in prolog that takes a set of signal pulses as 1s and 0s and output the appropriate text after considering possible errors and signal corruption.
- The signal pulses are first parsed to generate 'dihs'('.') and 'dahs'('-'), which were then parsed to generate the output strings.

Listdiff data structure implementation in Scheme.

October 2016

- Listdiffs are sublist representations where an N length sublist is represented as a pair whose car is the first element of the sublist and whose cdr is the first element after the end of the sublist.

RFID Based Toll Plaza System.

August 2012 – December 2012

- Implemented RFID Based Toll Plaza system using RS232 protocol and 8051 microcontroller to demonstrate the possible use of low-cost prepaid RFID cards to reduce bottlenecks at toll plazas.

PERSONAL PROJECTS

Flier Adventures: Single Player Java Game.

December 2016

- Implemented a Flappy Bird like game in Java in which the protagonist flies through a series of obstacles to reach the finish line.

Taxi trip time prediction – Kaggle

November 2016

- Used Random Forest Regressor and Gradient Boosting Regressor to predict the total travel time of taxi trips.

SKILLS

	Expert	Proficient	Knowledgeable
Programming languages:	Java, C#, C++, C	Perl, Python, OCaml	Scheme, Twisted
Web Technology:	HTML, CSS, JavaScript		NodeJS.
Design and Simulation tools:	MATLAB, Scilab.		
Version Control Systems:	Git, Rational ClearCase		

COURSEWORK

Graduate: Programming Languages, Types and Programming Languages, Cryptography, Database Systems, Web Applications, Large Scale Data Mining.

Under-graduate: Embedded Systems, Signal and Systems, Digital Image Processing Design, Neural Networks and Fuzzy Systems, Robotics and Automation.