SHASHANK SABHLOK

3B Electrical Engineering

EXPERIENCED IN:

LANGUAGES:
C • C++ • C# • MATLAB • JavaScript – AngularJS, ReactJS • HTML/CSS • Ruby • Swift (iOS) • MySQL • LUA • VBA •BASH • VHDL

FRAMEWORKS:
MEAN Stack • ASP.Net • Rails • Selenium

HARDWARE:
Arduino Uno• Altera FPGA • TI MSP430

SOFTWARE:
AutoCAD •MS Office • Balsamiq • GIMP • Linux • Windows •Mac •SAP• SAS VA

EDUCATION

UNIVERSITY OF WATERLOO

CANDIDATE FOR BACHELOR OF APPLIED SCIENCE IN HONOURS ELECTRICAL ENGINEERING
Expected April 2018
Option in Management Science

Coursework :
Power Systems
Embedded Microprocessor Systems
Algorithms & Data Structures
Analog Control Systems

Online Coursework:
Machine Learning   (Stanford)
Marketing   (Wharton)

Awards:
President's Scholarship of Distinction
NORTEL Networks Scholarship.

PERSONAL

Languages :
English (Native), Hindi (Native), French (Elementary), Arabic (Elementary)

Interests:
Travelling to all 7 wonders of the world - currently at 2/7.
Flyboarding
Hiking
Playing Soccer

WORK EXPERIENCE

Deloitte Consulting (Vancouver, BC)   May 2016 – Present
Associate Consultant

University of Waterloo – Management Consulting Club (Waterloo, ON)   September 2015- Present
Vice President - Marketing & Communications
- Developed club website to advertise events and maintain club's online presence.
- Organized alumni impact sessions and Waterloo's consulting case competition with 150+ attendees.
- Worked on CaseConnect - an online network for connecting students to practice case interviews.

Rubix – Blockchain Innovation (Toronto, ON)   August 2015 - December 2015
Software Developer
- Worked on two Smart Contract based Blockchain Applications in JavaScript and ASP.Net for a Fortune 200 client.
- Developed a MEAN PoC for a use case, and a block transaction explorer for Rubix's Blockchain Platform.
- Applied self-taught knowledge to develop and maintain team's website and Platform Monitor's front-end.
- Designed UI/UX prototypes and wireframes for team opportunities worth over $300,000.

Savision(Ottawa, ON)   January 2015 - May 2015
Software Developer in Test
- Wrote various unit tests for Savision's latest application in C# and Selenium.
- Developed the homepage of the application in ASP.Net. Gained insight into Microsoft Systems Center.
- Created LUA Scripts to generate mock IT environments to expose the applications to different situations.
- Manually tested the entire application across all platforms and reported bugs to JIRA. Authored the complete testing documentation for the application, which covered over 500 tests.

Maple Leaf Foods(Mississauga, ON)   April 2014- August 2014
Information Solutions Analyst
- Achieved a 75% first contact resolution rate for providing support to users concerning problems related to SAP, AS400, Cisco VPN, Windows, MS Office network printers and general computers.
- Acquired skills to write and update procedures and knowledge articles for the Service Desk. Interviewed various SAP consultants to gain a better insight into different SAP environments.

RESEARCH

UWaterloo – ECE Department (Waterloo, ON)   March 2016 - May 2016
ECE 300B Project Designer
- Used the TI MSP430 Launchpad to develop a project that involves a microphone detecting a loud buzzer signal through Fourier Transforms.
- Soldered (through-hole) the electronic parts on to the fabricated PCB.

UWaterloo – Microfluidics Department (Waterloo, ON)   January 2016 - May 2016
Lab-on-a-Chip Research Assistant
- Designed an electronic circuit to model a water-oil pipeline to gain a better understanding of uniform water droplet formation at water-oil collision junctions and its effect on the entire circuit.
- Analyzed circuit and T-junction behavior in tools such as Maple Sim and NI Multisim.

UWaterloo – ECE Department (Waterloo, ON)   May 2015 – August 2015
Stochastic Computing Research Assistant
- Researched and analyzed literature on verifying the logic of potential ASICs using Stochastic–Binary converters.

PROJECTS

Selfiegram
- An iOS app similar to Instagram but just for selfies. Employs Parse for the backend and the Flickr API for populating images.

SingMySong Arduino Pitch Follower – Eng+Math Hack 2016 (Top 10 – Finalist)
- Used Fast Fourier Transforms to identify the different song frequencies picked up by a microphone, and rendered an 8-bit version of the song on a mini-speaker.

PCB Design Project
- Created a LED flashlight system; chose necessary components through DigiKey datasheets.
- Designed the PCB using an appropriate PCB layout tool and sent it to the manufacturer for fabrication.
- Soldered (surface-mount) the electronic parts on to the fabricated PCB.

Arduino Projects
- Projects include photoresistor based Theremin, LED based Hourglass, and Motorized Pinwheel Soldered (through-hole) the electronic parts on to the fabricated PCB.

Kiddify – DeltaHacks 2016 (Top 5 – Finalist)
- Google Chrome extension for filtering explicit images from a website. Employs an image recognition API and uses returned tags to filter specific images.

MamaCare– Break Poverty Hacks 2015
- A MeteorJS app that employs the Twilio API to send text messages to expectant mothers in rural Kenya every week on tips related to pregnancy and how to tackle any issues. App caters differently to women with HIV.

FPGA Lab Projects
- Programmed FPGA boards with VHDL, so that switches and LEDs respond according to logic required. Work includes simple models of car controller, elevator controller and traffic light controller.

Android Navigation App
- Used in-built sensors in an android device to create a pedometer application which detects and logs footsteps through a state machine, and combines sensor's readings to track the user's position.