

GUNIN KHANNA

ELECTRICAL AND COMPUTER ENGINEERING

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Skills

LANGUAGES

C
C++
Java
HTML
VHDL
Swift
Assembly Code
MATLAB
Python
Groovy
CSS

FRAMEWORKS & LIBRARIES

Mean.js
Bootstrap

OTHERS

Git
XML
Troubleshooting
Circuit Design
Jira
FPGA
Team Foundation Server
Photoshop
Xcode
Eclipse
Agile Methodology
SoapUI
API Testing

Education

University of Waterloo
Electrical Engineering,
Honours, Co-operative
Program
Relevant Courses
• Digital Computers •
Electronic Circuits •
Engineering Design and
Embedded Systems • Digital
Circuits and Systems •
Fundamentals of
Programming • Data
Structures and Algorithms

Experience

UXP Systems

Software Test Developer

Toronto, ON
Jan 2017 to Current

- Developed methodologies and validation strategies by analyzing business and technical requirements to identify test requirements and ensuring that the software meets specifications
- Enriching the user experience by adapting to the ULM model, and maintaining the functional, integration, regression, performance, high-availability testing and code review.
- Proficient in Selenium Webdriver, Appium, SoapUI, JMeter/Tsung, TestNG, Linux/Unix command line tools
- Familiar with scripting languages: JavaScript, Python and Groovy

SOTI Inc

Quality Assurance Analyst

Mississauga, ON
May 2016 to Sep 2016

- Created, implemented and maintained test coverage for SOTI's Web and Mobile applications.
- Compiled and tested software builds on multi-OS (Android, iOS and Windows), and documented bugs in a JIRA repository
- Familiarity with Microsoft Test Manager, Team foundation server, Test link, Visual Studio and JIRA

AK Trading Company

Technical Support Specialist

New Delhi, India
May 2015 to Jul 2015

- Tracked and maintained product turns (cables, vibrators etc.) and existing inventory levels by communicating with buyers and co-workers
- Responsible for issues relating to software or hardware troubleshooting both Windows and MAC
- Gained experience in the customer service field by contacting companies which improved my interpersonal skills

Projects

Spore

- An organizational tool for students to manage their time better.
- Worked in a team to build the web platform using Angular 2 , Java , Git, Bootstrap, MongoDB , HTML and CSS

Path - Android Application

- Determines and displays a path between two points on an indoor map that updates based on user position
- Designed and implemented a pedometer algorithm, by identifying patterns from the accelerometer readings in a finite state machine to determine when a step is taken
- Filtered raw sensor data to account for noise and bias by using the low pass filter which attenuates high frequency signals

Traffic Light Controller

- Programmed an FPGA using VHDL to act as a traffic light controller, involving finite state machines running on a clock
- Included binary and modulus counters for the clock divider which determines the flashing of the lights using the clock frequency
- Allows traffic to flow efficiently by changing lights based on car detection

Web Server

- Accessed client requests from a text file and calculated web traffic statistics
- Incorporated the knowledge of linked lists and pointers to extract data from a struct to calculate the transmission delay
- Implemented server priority queues with simulated requests using C++

Awards

University of Waterloo · Engineering International Student Scholarship

- Extraordinary overall performance, awarded to 20 international students

University of Waterloo · President's Scholarship of Distinction

- Obtaining an overall incoming average above 95%

SOTI Inc · Excellence Performance as a Quality Assurance Analyst

- An evaluation of excellent as a Quality Assurance Analyst at SOTI by my supervisor on accounts of teamwork , dependability , leadership and work ethic

Activities

Mathematics blog

- 'guninkhannamathematics' which enable students to review important questions which are most likely to come in the examination along with some logical as well as thought provoking questions

Hackster's Club

- Assisted in a drone implementation, including hardware design to make it cost effective