GUNIN KHANNA

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SKILLS

LANGUAGES: C, C++, Java, VHDL, Swift, Assembly Code, MATLAB, Groovy
→

FRAMEWORKS & LIBRARIES: Mean.js, Bootstrap
→

OTHERS: Git, XML, FPGA, Agile Methodologies , HTML, CSS, API Testing, SoapUI, JSON, JIRA

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%

UXP Systems ·
Certified Scrum Team Member

EDUCATION

University of Waterloo
Computer Engineering, Honours, Co-operative Program
Relevant Courses
· Operating Systems · Embedded Microprocessor Systems · Data Structures and Algorithms · Electronic Circuits · Digital Circuits and Systems · Fundamentals of Programming

ACTIVITIES

Hackster's Club
- Assisted in a drone implementation, including hardware design to make it cost effective

Mathematics blog
- guninkhannamathematics

Front-End Development
- Designed and developed my personal website
- Technologies used : HTML, CSS, Bootstrap and JavaScript

EXPERIENCE

UXP Systems
Toronto, ON
QA Automation Engineer · Jan 2017 to May 2017
- Worked on an Agile project with Vodafone, **3.2 million** active users**,** to implement a layer of functionalities such as SAML login, registration, authentication, and CSR control
- Implemented API testing using *SoapUI, JSON, Postman, Git, CURL* in a *UNIX box* with a **98.9%** automotive coverage
- Developed *Groovy scripts* to retrieve Captcha, session-id, cookies and created data tables in the database using *SQL*
- Designed and developed automated tests for CWC Flow, ULM and streaming service, using *Java, Selenium WebDriver, XML, TestNG* and increased the coverage by **87.6%**

SOTI Inc
Mississauga, ON
Quality Assurance Analyst · May 2016 to Sep 2016
- Implemented functional, integration, regression and performance testing for SOTI's Web and Mobile applications for features such as Remote Control and Geo Restrictions
- Successfully assisted the team to decrease the battery consumption by the service for Android users by **16%**
- Compiled and tested software builds on multi-OS (Android, iOS, and Windows), and documented bugs in a JIRA repository

AKTC
New Delhi, India
Electrical Engineering, Intern · May 2015 to Jul 2015
- Worked with Havells and Kalinga Cables in order to generate specification for AKTC customers
- Assisted in the implementation of a concrete vibrator and developed skills such as *soldering*, *breadboard*, *IC analysis* and *Multisim*
- Tracked and maintained product turns (cables, vibrators) and existing inventory levels by communicating with buyers and co-workers

PROJECTS

Spore
- Worked in a team to build a web platform that provides organizational tools for students; technologies used *Node.js, Java, MongoDB* and *Angular 2*
- Developed a parser to allow students to seamlessly export course information to our calendar or third-party calendar
- Designed and implemented an algorithm to intelligently read critical dates and information from the course outline with an accuracy of **92.3%**

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

Data Structures and Algorithms
- Developed a Trie Data Structure, a **26-ary** tree, using *recursive* programming
- Implemented a **Hash Table** data structure, used *linear probing* to resolve collision, and **MST** of a weighted undirected graph, using the **Kruskal's Algorithm**