

## SKILLS

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

**FRAMEWORKS & LIBRARIES:** Mean.js, Bootstrap

**OTHERS:** Git, XML, Circuit Design, JIRA, FPGA, Photoshop, Agile Methodologies, SoapUI, API Testing, HTML, CSS

## 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

## 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

- 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

### 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, constant time for insert and remove operations. (O(1))
- Minimum Spanning Tree (MST) of a weighted undirected graph, using the Kruskal's Algorithm, with each edge having a positive weight, represented the graph using adjacency matrix.