

Skills Summary

- Adept at object-oriented programming with C++, C# and Java through years of software development experience
- Proficiency in HTML5, CSS and JavaScript through concrete experience in self-initiated web development projects
- Familiar with computer science concepts and relational databases; proficient with algorithms and data structures
- An understanding of the software development lifecycle while hungry to learn more about software production
- Tremendous UI design skills, primarily in Qt and Eclipse, through Android and Windows application development
- Excellent innovation and problem solving skills through team design projects and love for challenges
- Quick and passionate learner who dives into every pool of knowledge; very adaptable with an urge to improve
- Vast inventory of interpersonal and teamwork skills, through workplace experience and oceans of team projects, while also an excellent independent worker; individually handled all IT duties during previous internship.

Technical Skills

C++	Qt Framework	HTML 5 / CSS	Git
C#	Eclipse	JavaScript + jQuery	VHDL + Quartus II
Java	Android Studio	Bootstrap	SQL

Work Experience

Program Developer

(Jan 2015 – Apr 2015)

Carleton University, Ottawa

- **Independently developed the GUI** of a desktop based hydrological-simulation software, **distributed beta version** to clients, and **completed debugging** based on reviews, resulting in the software ready to go gold.
- Enhanced **OOP skills** by using **advanced C++ with Qt's MVC** architectural pattern to implement the UI.
- Created and distributed the installation package using a **script-driven installation system** called "Inno Setup".
- Travelled to Vancouver; **performed instant debugging**, allowing smooth use of the software during a course.

Customer Service and Corporate Intern

(July 2013 – Aug 2013)

Diamond Trust Bank, Kenya

- **Developed excellent communication skills and professionalism** by serving customers at a major branch
- **Demonstrated quick learning** by independently writing loan applications within two days of corporate training

Projects

Android Application Development

(Jan 2015 – Present)

- Developed Android applications using **event-driven programming** in **Eclipse**, programmed in **advanced Java**
- **Created a pedometer** by **reading the accelerometer**, using **state machines** and filters; also created an application that read, graphically displayed and recorded dynamic sensor values
- Development included the **use of the Subclipse plugin**, allowing efficient teamwork; experience with SVN

Web Development

(Jan 2013 – Present)

- Developed two websites using **HTML 5 and CSS with Bootstrap and JavaScript with jQuery**
- Designed an **interactive personal website** (listed on top), using **jQuery**, and an informational website for my philanthropic group (www.uhaimombasa.com) using **HTML / CSS**; substantial web design experience

Independent Software Development using OOP

(Jan 2014 – Dec 2014)

- Utilized **object-oriented programming concepts** to build programs, in **C# and C++**, with advanced features
- Created software for **database management**, **encoding/decoding** messages, **automation of data processing**, through file input/output streams, and complex calculations; exceptional **OOP skills** and experience
- Used **Visual Studio Command Prompt** with the **.NET Framework** to compile all programs

Digital Circuit Design and Logic Synthesis

(May 2015 – Present)

- Designed hardware using **VHDL**, verified **RTL schematics** through simulation, and **programmed FPGAs** after the synthesis of the HDL design was completed in **Altera Quartus II**; rich understanding of hardware design
- Designed and Implemented **combinational and sequential circuits** to control cars and elevators

NSLC Team Design Projects:

(Jun 2013 – Jul 2013)

- Built an **electronic underwater sea perch** using concepts of **fluid mechanics and circuit design**
- Built a **trebuchet and a mini wind turbine** using recyclable and low-cost materials; **enhanced creativity**

Co-Founded UHAI, Mombasa (Charitable Group)

(Dec 2012 – May 2014)

- **Worked with a team** of executive members to **engineer solutions** to problems in the developing world
- Implemented various **fund-raising techniques** to provide Pungu Primary School with **access to clean water**
- **Organized entertainment events** for the unfortunate and handicapped within the community of Mombasa

Volunteering and Extracurricular Involvement

Model United Nations:

(Aug 2012 – Jan 2013)

- Developed exceptional communication skills by debating about world issues in large-scale conferences

Dorm Captain at Aga Khan Academy, Mombasa:

(Apr 2013 – Apr 2014)

- Acquired excellent leadership skills through student leadership of residential dorm in high school
- Demonstrated teamwork by working with other captains to organize events for the residential community

Community Service and Event Organisation

- Constructed a School in Mombasa, with a team, in a rural Kenyan village (Dec 2012)
- Organized and participated in an event to medically deworm of villagers in Kenya (Sep 2012)
- Enhanced teamwork skills by organizing an IB Workshop, with other students, in Mombasa (Oct 2013)
- Raised Awareness about environmental issues with “Your Environmental Voice” (Aug 2012 – Jan 2013)
- Independently organized soccer and basketball tournaments for the youth in U.A.E (2010 – 2011)
- Organized informational and recreational events with Odyssey Youth Club, Dubai (Mar 2011–Aug 2012)

‘The Tribe’ (Music Group)

(Aug 2012 – May 2014)

- Performed at several concerts and large-scale events; won several competitions

Physical Education

- Played for the cricket, basketball, table-tennis and softball varsity teams in high school (2008 – 2013)
- Climbed Mt. Kasigau (1600 meters) with a team for the Bronze President’s Award expedition (Feb 2013)

Awards and Scholarships

- A CAD 12,000 President’s Scholarship to the University of Waterloo for academic excellence (Apr 2014)
- MVP at the NSLC Conference for exceptional leadership, creativity and problem solving skills (Jul 2013)
- Annual Academic Award and 5 consecutive Academic Honours Certificate in high school (2010-2014)
- Offered a USD 32,000 scholarship by UC, Riverside for academic excellence ([not availed](#)) (Apr 2014)

Education

- Candidate for BAS in Honours Computer Engineering at the University of Waterloo (Sep 2014 – Present)
- International Baccalaureate Diploma from the Aga Khan Academy, Mombasa (Aug 2012 – May 2014)

International Baccalaureate Diploma Projects

- Math Exploration: calculated the probability of winning Poker hands through conditional probability concepts
- Extended Essay: an extensive 4000-word research paper exploring links between technology and economics