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Nakash Ali

Computer Engineering University of Waterloo

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Skills Summary

- Several work terms and projects in C/C++, C# and Java; a strong understanding of object oriented programming
- Developed web applications using MVC frameworks like Rails and ASP.NET; Experience with SQL and JavaScript
- Numerous leadership experiences and extracurricular involvement resulting in strong interpersonal skills

Technical Skills

<u>00P:</u>	Web App Frameworks:	Database and Front-End:	App Development:	<u>Others:</u>
C#	ASP.NET	SQL / T-SQL	Android Studio	Assembly
C / C++	Ruby on Rails	JavaScript / ExtJS / jQuery	Qt Framework	Shell Scripting
Java	Groovy on Grails	HTML 5 / CSS / Bootstrap	Eclipse IDE	MATLAB

Work Experience

Software Developer - Application Development - The Nielsen Company, Markham

(May 2016 - Aug 2016)

- Developed a web app, with ASP.NET, ExtJS and MS SQL Server, to improve Nielsen's data management software
- Performed full stack development, particularly using SQL stored procedures and JavaScript for the front-end
- Developed a C# program using COM Interop to import MS Excel charts into PowerPoint, saving 200 days of work
- Wrote batch scripts to interact with SQL Servers and load consumer databanks, thus optimizing the UAT process
- Learned about the production of large-scale software by working on several teams; chaired a monthly meeting

C# Software Developer - Transnomis Solutions Inc., Toronto

(Sept 2015 – Dec 2015)

- Developed a web application from scratch, for the online administration of road permits in Durham, Ontario
- Performed full stack development using ASP.NET MVC with MS SQL Server, C#, and JavaScript/HTML/CSS
- Collaborated with another teammate to implement Instant AJAX Searching, SVG Editing and User Management
- Performed thorough testing and debugging, resulting in a product ready for deployment

Program Developer - Carleton University, Ottawa

(Jan 2015 - Apr 2015)

- Independently developed the GUI of a hydrological-simulation software using Qt with C++ and MVC architecture
- Performed debugging and testing, compiled a setup for the software and monitored its launch at UBC

Customer Service and Corporate Intern - *Diamond Trust Bank, Kenya*

(July 2013 - Aug 2013)

Developed communication skills by serving customers at a major branch and writing corporate loan applications

Projects - http://www.nababwany.com/myprojects.html

SpeakBack – Speech Analysing Web Application (Ruby and Rails, HTML, JS, Shell)

(May 2016 – Present)

- Software uses an IBM Watson API and Praat phonetic analysis to record speech and provide an intensity graph
- Independently developed the application to provide feedback on speech in order to improve my teaching skills
- Programmed Praat and Shell scripts to analyse audio and generate graphs; wrote Ruby logic to coordinate them
- Developed an HTML 5 and JavaScript front-end in order to provide an audio recording interface and show results

Price Estimator – Web Application (Ruby on Rails)

(Sept 2015 – May 2016)

- Application developed using Rails to estimate prices of used products, based on results from e-shopping websites
- Wrote JavaScript to interact with e-shopping API's and Ruby algorithms to calculate an average price based on how the API data matched the user's description of their product.

Independent Software Development using OOP – with C# and C++

(Jan 2014 - Present)

- Developed software for database management, encoding/decoding messages, automation of data processing through file IO streams, and for calculating Euler's approximations, using C++ and C# with OOP concepts
- Programmed C++ algorithms for management and traversal of various data structures like trees and hash tables

Web Development – with Groovy on Grails, JavaScript, HTML/CSS and Sketch

(Jan 2013 - Present)

- Developed the UI, using Grails, of an application to help schedule volunteering duties for my community
- Learned how to design user interfaces using Sketch and how to implement Sketch designs using HTML / CSS
- Designed an informational website for my philanthropic group (<u>www.uhaimombasa.com</u>) using HTML / CSS

Android Application Development – Using Java, Android Studio and Eclipse

(Jan 2015 - May 2015)

- Developed Android applications by writing Java and XML, using the Android Studio and Eclipse IDE's
- Recorded sensor values and implemented filters and state machines in order to develop a pedometer
- Coordinated with a teammate, using Subclipse SVN, to write path-finding algorithms and create a navigator

Digital Circuit Design and Logic Synthesis – with VHDL and Quartus

(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

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 within the community of Mombasa, such as orphans

Volunteering and Extracurricular Involvement

Religious Education Teacher at ITREB Canada (community centre in Kitchener, Canada)

(Jan 2015 - Present)

Taught Year 3 students about religious traditions and helped promote religious and cultural pluralism within kids

Vice Chair of Waterloo Ismaili Students Association (student community at UWaterloo)

(May 2015 - Aug 2015)

Helped run the executive committee in order to plan weekly bonding and entertainment events for club members

(Aug 2012 - Jan 2013) **Model United Nations:**

Attended large-scale conferences to propose and debate about innovative solutions to global diplomatic issues

Dorm Captain at Aga Khan Academy, Mombasa:

(Apr 2013 – Apr 2014)

- Led the students of my residential dorm by addressing their concerns and helping them achieve academic success
- Collaborated with other leaders to organize events for the residential community, fostering a family environment

Community Service and Event Organisation

Created a presentation to help community executives plan Canada's sesquicentennial celebrations (July 2016)

Tutored Kenyan students in various subjects, boosting their academic progress (Jan 2013 – Feb 2014)

(Sep 2012) Organized and participated in an event to medically deworm children in rural Mombasa

Wrote articles to raise awareness about environmental issues in Kenya (Aug 2012 – Jan 2013)

Independently organized soccer and basketball tournaments for the youth in U.A.E (2010 - 2011)

Bass Guitarist – 3 Piece (rock band based in Waterloo, Canada)

(May 2015 - Present)

Performed at several community dance events and organized several musical events with the rest of band

'The Tribe' (performing arts group based in Mombasa, Kenya)

(Aug 2012 - May 2014)

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

Physical Education

(2008 - 2013)Played for the cricket, basketball, table-tennis and softball varsity teams in high school

(Feb 2013) Climbed Mt. Kasigau (1600 meters) with a team for the Bronze President's Award expedition

Awards and Scholarships

(Apr 2014) A CAD 12,000 President's Scholarship to the University of Waterloo for academic excellence

MVP at the NSLC Conference for exceptional leadership, creativity and problem solving skill

(Jul 2013)

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 using conditional probability concepts
- Extended Essay: a research paper about the price elasticity of internet bandwidth in Mombasa's schools