TUSHITA PATEL

Second year – Bachelor in Science Honours in Computer Science | University of Saskatchewan

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SUMMARY OF SKILLS

- Strong presentation, communication and interpersonal skills developed through extensive interaction with customers and coworkers during previous volunteer experiences as a computer tutor and a business promoter
- Excellent analytical and mathematical skills with great attention to detail without losing the big picture
- Ability to read and work with existing code, acquired by course-related projects and by helping classmates
- Team player who likes helping others, as well as an independent worker
- Quick learner and a self-starter with high adaptability skills and immense confidence demonstrated through active involvement in various clubs and other extra-curricular activities
- Well organized, sincere and work oriented with strong work ethics built through work experiences and education
- Diligent and responsible, capable of multi-tasking through effective time-management and organization skills
- Creative and innovative skills acquired by working on art portfolios, entrepreneurial and intern projects
- Well-experienced in html, C, C++ and Java; eager to learn new programming languages and software
- Working knowledge of Python, SQL, Prolog, SVN, git and UNIX/LINUX environments

EDUCATION

College of Arts and Science - Bachelor of Science Double Honours (Computer Science) 2014 - 2018
University of Saskatchewan, Saskatoon, SK

- Expected date of graduation: April 2018
- GPA: 3.7
- Winner of University of Saskatchewan Schulich Leader Scholarship 2014 – worth $60,000 for demonstrating academic excellence, outstanding community involvement and entrepreneurial leadership

Related Courses:

- CMPT 260 - Mathematical Logic and Computing
  - Applied propositional and predicate logic
  - The theory of sets, relations and functions
  - Relational databases and SQL
- CMPT 270 - Developing Object-Oriented Systems
  - Object-oriented programming
  - The use of modeling, abstractions, patterns, and GUIs to design and build a good Object Oriented system
- CMPT 214 - Programming Principles and Practice
  - A hands-on approach to software development at the individual and small team level
  - Application of software tools- including scripting languages, system utilities and libraries
  - Integrated with programming practices, system development, testing and maintenance issues
- MATH 276 - Vector Calculus
  - Limits and continuity in n-dimensions and Curves in space
  - Differentiation in n-dimensions and the derivative as a linear mapping
- CMPT 215 - Computer Organization and Architecture (Currently taking)
  - Hardware-software interface, memory hierarchies, and I/O systems
  - Machine and assembly language, computer arithmetic, the processor datapath and control, and pipelining
- CMPT 280 - Data Structures and Algorithms (Currently taking)
  - Various tree representations and searching
  - Various graph representations and searching
  - Sorting algorithms

Ongoing Project:

- App development for Saskatoon Health Region
  - Working with a small team, SASK Invent, to build a pregnancy app on Android for Saskatoon Health Region
  - Gained beneficial knowledge and experience on the process of app development using Android Studio

Extra-curricular involvement:

- Computer Science Director of Cameco Spectrum 2016
- Associate Editor – University of Saskatchewan Undergraduate Research Journal (USURJ)
- Member of the Computer Science Student's Society

WORK EXPERIENCE

Marker, Department of Mathematics and Statistics, University of Saskatchewan, SK Fall Term, 2015

- Marked midterms of 100-level (first year) Math courses, while taking a full course load as a second year student

Research Assistant, Department of Mathematics and Statistics, University of Saskatchewan, SK Summer, 2015

- Assisted a PhD student with his project on 'modeling DNA and type 2 topoisomerase via self-avoiding polygons in different lattices'
- Ran simulations and implemented my own Pivot Algorithm code to solve smaller length self-avoiding polygons

Architectural Intern, Hatch Ltd, Oakville, ON August 2013

- Researched, designed and rendered the design of a subway station building in Toronto, ON with a team of architects
- Designed using architectural software such as Auto CAD, Revit and Google SketchUp
- Given the incredible opportunity to present the detailed design to the architectural committee

VOLUNTEER EXPERIENCE

- Dedicated over 1000 hours of community service to make an impact on the local community

Community building, Blackberry Build-A-Village Program, Kenya with Free the Children August 2014

- Gained international volunteer experience by building a primary school in rural Kenya
- Appreciated the opportunity to learn about international relations and global issues and the strategies to make a difference and create change

Computer Tutor, Public Library 2011 - 2014

- Provided a supportive environment to elderly students and helped them learn to use computer for their first time
- Developed strategies to come up with unique ideas to stimulate learning based on individual strength of students

Executive Team Member, www.theyouthlink.com (currently on hiatus) 2011 - 2014

- Made contributions to a startup website, theyouthlink.com which connects youth to various learning opportunities of internships, contests, summer programs and scholarships across Canada and abroad
- Contributed to website designing and development as well as its promotion in targeted locations such as high schools and social events

AWARDS AND RECOGNITION

- Governor General's Academic Medal for achieving the highest average in secondary institution
- Scotiabank Foundation Scholarship worth $5,000 for community involvement and leadership
- Canadian Federation of University Women scholarship and recognition for inspiring women, community involvement and leadership, entrepreneurship and academic success worth $2,000
- Shad Valley International Alumna 2013 – a science, technology and entrepreneurship based summer enrichment program - designed for top 50 well-rounded high school students across Canada
- Outstanding Student of the Year Award in high school for the highest average and overall excellence

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