

NOBALPREET

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SUMMARY

- Master of Engineering in Electrical and Computers from Queen's University
- Over 2 years of professional and academic experience in software development, with proven background of successfully managing and developing websites
- Well-versed in the Agile development environment along with strong exposure to C/C++, Java, Python and, RESTful APIs
- Ambitious problem solver with in-depth understanding of Software Development Lifecycle and Software quality assurance
- Highly result driven individual with impeccable work ethics, proactive attitude and readily willing to pursue and master new skillsets

TECHNICAL SKILLS

- **Languages:** Java, C/C++, Python, JavaScript, Spring, Bash, JQuery, HTML5, CSS3
- **Databases:** MySQL, SQLite
- **Tools & IDEs:** Docker, SrcML, Git, Eclipse, Bootstrap, MySQL Workbench
- **Operating Systems:** UNIX, Linux(Ubuntu), Windows

EDUCATIONAL QUALIFICATIONS

Masters of Engineering in Electrical & Computers

School of Graduate Studies, Queen's University, Kingston, ON

August 2017 - August 2018

Bachelor of Technology in Electronics & Communication

Guru Nanak Dev University, Amritsar, India

August 2013 - May 2017

WORK EXPERIENCE

Queen's University-Research Assistant

**May 2018 – August 2018
(4 months)**

- Parametrized test cases are generated with five random data(UDP) data generators
- Utilized publish-subscribe pattern of RTI and stored the packets in output file
- Developed using XML, python, Docker, pimd router on Ubuntu
- Successfully developed to stress test the IDS with minimal user inference and the submission is in progress

Guru Nanak Dev University-Web Developer

**June 2015 - May 2017
(2 years)**

- Programmed and successfully developed the library website for Guru Nanak Dev University
- Prepared weekly reports of website performance and Wireshark results of site traffic
- Used JAVA, JavaScript and MySQL workbench for development
- Maintained the module over a year and met requirements for modifications

LINUX EXPERIENCE

Implementation of TCP and UDP

- Implementation a topology that compared UDP and TCP performance over a heterogeneous network
- The network was built and tested on LINUX using Ubuntu VMware. Network was programmed in C. Output was analyzed by sending data packet via the network and storing packet information in a file
- The results were inconclusive and hugely dependent upon the number of packets transmitted. In the tested network, UDP performed better for a larger number of packets

PROGRAMMING EXPERIENCE

APP Migration:

- Converts an android app to IOS app
- Developed using Java, SrcML tool
- Compared the performance with J2ObjC(tool)

LED Management System:

- A project is based on Apache server, PHP and MySQL database
- It provides login, authorization management, graphic/text edit, single/multiple terminal sending
- XAMPP software used to develop environment, CSS used for designing

Plagiarism checker:

- Built in JAVA, words are searched through text files and matched
- Hash tables/ Red Black BST/ Binary sort used to search words from text files

INTERNSHIPS

VMM-Software Developer, Amritsar, India

- Developed and delivered minor project modules bi weekly, experimenting with new frameworks and tools
 - Developed applications for Android and IOS operating systems. Wrote shell scripts in order to automate process and test our applications
 - Wrote queries in SQL to optimize data in MySQL Server
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