

# Sanchit Luthra

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## Objective

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Creative and self-motivated developer seeking a position of a Software Developer where my education, technical skills and experience can be effectively utilized.

## Education

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**Bachelor of Computer Science**, University of Toronto – St. George Campus

## Summary of Skills

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- **Programming Languages:** Java 8, Python, C, C++, Scheme, Verilog
- **Design & IDE:** UML, Eclipse, Android Studio, Unity, JetBrains
- **Version Control:** GitHub, SVN
- **Office Tools:** MS Office, Power Point, Excel
- **Operating Systems:** Linux, Windows
- **Mobile Platforms:** Android
- Adaptable with excellent problem-solving skills and a team focused attitude.

## Experience

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### **Software Development Intern – Amazon AWS**

*May 2017 – July 2017*

- Successfully completed a software development project as a member of the Amazon Web Services Relational Database team. This project involved developing a feature to aggregate and analyze performance metrics obtained from the hardware running the customers' database instances.
- Created a fully fleshed out design document that covered everything from motivation for development to detailed implementation. The process involved leading discussions with the senior engineers of my team where I could justify my design decisions.
- Implemented project individually which involved writing code across multiple Java packages as per Amazon's coding standards. Feedback from my team members was requested and incorporated as required.
- Worked with other senior engineers across different teams at Amazon to prepare my changes for deployment into customer regions.

### ***Programing Intern - IT Globe***

*June 2016 - August 2016*

- Worked during the summer to write Python scripts to collect financial data (using Yahoo Finance API) from the internet and store it on a local machine. Data that I couldn't retrieve from the API I pulled directly from webpage sources by familiarizing myself with html webpages. The data was being collected to assist in the creation for financial models to be used in high frequency trading.
- Introduced to Hadoop as the team was taking advantage of the Hadoop file system and map-reduce capabilities to store, organize and analyze the data that was being pulled.

### **Academic Highlights**

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- **Mobile Application Development** I successfully completed a summative project where I worked with other group members to develop an Android application with a simple user interface. This application would allow users to build flight itineraries by simply entering their departure and arrival points in to the application and allowed administrators to manage the flight and user information present in the application. We also regularly held group meetings in person and online and used version control to update other members with our work. I enjoyed working on mobile so much that I am currently developing my own Android game using the Unity game engine.
- **Kernel Programming:** Wrote a program in the Linux kernel that was made to intercept system calls made by the OS. This assignment introduced me to the Linux kernel and some of the challenges that come along with kernel programming. From this, I learned to look more thoroughly through programs and code to help eliminate small bugs and errors as my experience developing/testing kernel code was an enlightening one.
- **Ray Tracing:** Developed a rudimentary ray tracer in C++ for drawing images that contain primitive shapes that have undergone various transformations. Over the course of developing this application I implemented multiple different rendering techniques such as shadows, reflections and anti-aliasing. In terms of workflow, ray tracing introduced me debugging an application with a very long runtime. I really had to adapt and break down problems through scene signatures and rendering size to tackle any bugs I encountered while developing.

### **Extra-Curricular Activities/Contests**

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#### ***Volunteer Guitar Teacher – Sol Music***

*September 2014 –Present*

- Independently developed lesson plans in preparation for weekly lessons in which I was teaching young guitar students at a local elementary school. Also, I collaborated with other teachers to help each other develop our styles of teaching.

**References** – Available upon request.