Samuel Alebachew

samuel.alebachew@gmail.com

Renton WA, 98055
(425) 533 8344

Objective Statement:

- I am looking for a full time position with a company where I can use my analytical, technical and leadership strengths and apply them to an innovative engineering setting.

Experience:

Boeing *Software Engineering Intern* June 2014 – Present

- Developed a lightweight simulation of Boeing's P-8 mission system for clients to test their applications before deploying them on the actual hardware. There was a huge learning curve, but I wasn't deterred.
- Built a server which marshalled data to and from external clients independent of endianness. The server simulated long distance communication protocol between aircraft, so there were many fun oddities about the implementation I had to overcome.
- Designed the framework, evaluating design patterns and threading models. Keeping in mind the testability of GUI code, and modularity for the many "plug-ins" to be added to the simulation. I really enjoy planning and seeing the forethought pay off.
- Gained much skill with using Maven in the process of my own custom build environment.

Hive[6] *Android App Development Intern* June 2013 – September 2013

- Developed both new and existing features for an android productivity application. Tested all features in JUnit.
- Efficiently stored user data and made appropriate adjustments for sync cycles with SQLite gaining basic experience with databases and powerful queries.
- Removed main screen animation latency by caching graphical information, improving user experience.
- Implemented the front end user interface of a file storage module for creating, editing, and sharing files.

Key Skills:

- Programming Languages: Java (proficient), Python (avg), C (avg), C++ (avg), SQL (basic)
- Programming Tools: Eclipse, Android Studios, Vim, Unix/Linux, Maven, Git, Arduino, Active HDL

Education:

BS: Computer Engineering *University of Washington (Seattle Campus)* March 2015

- Projects:
  - Built & programmed an auto-tuning AM receiver (C++) http://www.youtube.com/watch?v=RFDpw2oJbK8
  - Multi-threaded grid based US population calculator (Java)
  - Author Comparator (Calculates the distance between word usages of different authors) (Java)
  - Content based file search tool (C)
  - Artificially Intelligent PacMan (Python)
  - Senior Robotics Capstone Project: https://www.youtube.com/watch?v=yKJAJsvxj6k

Aerospace Engineering Transfer *Bellevue College* June 2010 – June 2012

- 3.82/4.00 GPA earning 111 total credits in 2 years.

Honors & Activities:

UWCTF Member *University of Washington* October 2012 – June 2013

- Participated in a few CTF competitions in my spare time.

NSBE President & Founder *Bellevue College Chapter* September 2011 – June 2012

- Mission: To increase the number of culturally responsible Black Engineers who excel academically, succeed professionally and positively impact the community. As president, I recruited members, organized events, and brought guest speakers from the industry to our meetings in hope to improve and concentrate their aspirations.