Samuel Alebachew

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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 Engineer*   March 2015 – Present

- Managed an effort to resolve a software flight test report from start to finish with a small group.
- 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.
- Developed backend software defining session->app layer protocols for secure communication to external clients.
- Designed the simulation framework, evaluating design patterns and threading models. Keeping in mind the testability of JavaFX UI code, and modularity for the many features to be added to the simulation.
- Designed UML model architecture of new features to be developed.
- Mostly worked with a maven build environment, implementing many of my own maven-plugins.

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 frontend user interface of a file storage module for creating, editing, and sharing files.
- Used profiling tools like TraceView to determine what to optimize in the UI.

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:

B.S. Computer Engineering   *University Of Washington, Seattle*   Sept 2012 – 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 Club - participated in a few CTF competitions in my spare time at the University of Washington.
- TopCoder - participated in many TopCoder events as well.
- www.samuelale.com - my website that you should definitely check out.

NSBE President & Founder   *Bellevue College Chapter*   Sept 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.