C++ Tools

MEMORY LEAK TOOLS

1. Valgrind:

http://www.cprogramming.com/debugging/valgrind.html

Valgrind is a multipurpose code profiling and memory debugging tool for Linux when on the x86 and, as of version 3, AMD64, architectures. It allows you to run your program in Valgrind's own environment that monitors memory usage such as calls to malloc and free (or new and delete in C++). If you use uninitialized memory, write off the end of an array, or forget to free a pointer, Valgrind can detect it. Since these are particularly common problems, this tutorial will focus mainly on using Valgrind to find these types of simple memory problems, though Valgrind is a tool that can do a lot more.

1. Deleaker

<http://www.deleaker.com/>

Deleaker is a Visual C++ extension and standalone application for memory leak detection - memory, GDI, and handles so far.

*Profiler:*

1. Gprof – Linux/Unix - for any language based on gcc
2. Dynatrace – Hybris – also used for C++

IDE

1. **Microsoft’s Visual Studio** 2005, 2008, 2010, 2012, 2013, 2015
2. **VIM plus** – Linux
3. **Code Warrior** -  Embedded software development studio is a complete integrated development environment (IDE)

*Source Control:*

1. Alien Brain
2. Perforce
3. Tortoise/ source Tree for Github/bitbucket

*Defect tracking:*

1. Clear Quest
2. Jira

Web Tools

1. fiddler
2. ngrok