

Colin McCambridge

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Currently living in:
Redmond, WA 98052

Currently working in:
Redmond, WA 98052

me

I'm a computer engineer with a passion for complex system architectures, low-level coding, and impactful software. I enjoy drilling into the gritty details of the code that powers our world in big ways and small, and sharing my experience and passion with anyone willing to learn.

technical
skills

Operating Systems & Tools

Microsoft Windows (XP – Win7), Visual Studio, WinDbg, Perforce, SVN, Git, Linux, Mac OS X

Languages

Daily use: C, C++, x86/x64 assembly, Win32 API, COM, Windows Shell

Proficient: C#, LINQ, Batch scripting *Some Exposure:* ASP.net, HTML, JavaScript, PERL, ARM

Unique skills

Source- & Assembly-level debugging, Kernel debugging, Code Reading, Deep Windows Internals

professional
experience

MICROSOFT CORPORATION Windows Sustained Engineering

Software Development Engineer II

August 2008 – Present

- Debugged, root cause analyzed, and coded fixes for a wide range of customer-facing issues in the Microsoft Windows operating system
- Designed, implemented, stabilized and delivered new features for the shell file copy engine and conflict resolution experience for “Windows 8”
- Personally delivered over 70 Windows Updates and “Hotfixes” to more than 500 million PCs worldwide, including real-time critical security updates
- Extensive breadth and depth of Windows Internals, operating system design, native code debugging, and large codebase development practices
- Collaborated with test owners, program management, and product teams to drive customer feedback into future operating system versions, e.g. “Windows 8”
- Recognized by peers for a “Personal Excellence” award

NVIDIA CORPORATION GPU Architecture Team

Architecture Intern

Summer 2007

- Developed error aggregation system for large-scale distributed RTL simulation
- Executed performance simulations for cutting edge graphics processors

MICROSOFT CORPORATION Windows Sustained Engineering

Software Development Engineer Intern

Summer 2006

- Investigated and developed solutions to software defects in Microsoft Windows XP
- Collaboratively developed a system state change diagnosis tool

education

B.S. COMPUTER ENGINEERING AND COMPUTER SCIENCE

University of Wisconsin-Madison

May 2008

- GPA: 4.00 / 4.00
- Eta Kappa Nu honor society, President
- *Significant coursework:* Computer Architecture, DSP, and Embedded Systems
- *Capstone project:* Design and prototyping of a multi-touch input device