

ZACHARY JAGGI

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- Education:** **University of Texas at Dallas, Richardson, TX** **August 2013 - Present**
Candidate for Bachelor of Science in Computer Science
- Collin College, Plano, TX** **August 2011 - May 2013**
Associates of Sciences
- Employment:** **Elk Products, Hickory, NC** (Software Engineering Intern) **May 2013 - Present**
- Rewrote several server softwares from the ground up to be streamlined, greatly reducing latency and significantly reducing memory and CPU footprint
 - Corrected issues in UI of consumer remote control software, reducing problematic page loading time from seconds to milliseconds, as well as improving debug output
- Skills:**
- Programming**
- Strong knowledge of **C/C++, Bash, Perl, C#, and Java**
 - Experience in **Python, JS, PHP, Visual Basic, MySQL interfaces**, and **L^AT_EX**
 - Experience developing with **Microsoft Visual Studio, Eclipse IDEs**
 - Developed a custom **distributed server** for devices connecting via a custom protocol
 - Use of **debugging utilities** (valgrind, GDB, GDB Embedded)
 - Some experience in **Android development**
 - Experience in libraries including **SDL/2, POSIX, OpenAL Soft**
 - Worked with **Git** and **SVN** source tracking
- System Administration**
- Administration of **Nginx, Apache** and other servers software
 - Years of experience with various distributions of **Linux** (especially Arch Linux)
 - Experienced in task automation via **Bash, Perl** and **Python** scripts
- Embedded Systems**
- Experienced in programming for **embedded systems**
 - AVR/ARM Microcontrollers: **ATMega** and **ATTiny series**
- Projects:**
- Virtual Reality**
- Development of interfaces for Virtual Reality technology (Vuzix VR920, Wii, Oculus Rift DK1/DK2)
 - Currently managing the crossplatform work necessary to run Dolphin VR (Gamecube emulator) on Linux
- Open Source Community**
- Ongoing packaging of software for the ArchLinux distribution, including VRUI development kit, Dolphin VR, oculus-wine-wrapper and others as well as contributed to the various articles of the ArchLinux Wiki, especially in resolving installation issues and performance optimizations
 - Active Github user, with numerous contributions (mostly related to crossplatform work)
- 3D Printing**
- Built and continually upgraded a MakerBot Cupcake, a hobbyist CNC 3D printer, including redesign of several individual parts using the OpenSCAD parametric 3D modeler
 - Worked with the embedded C firmware code loaded onto the printer motherboard