WILL GOLDIE

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Objective

An internship doing meaningful computer science work where I can grow and develop.

Education

Graduated from **Acalanes High School** in the SF Bay Area in June 2015.

Began studies at the **University of Toronto** in September 2015, entering the Computer Science program as a 2nd-year student.

Skills

Strong background in programming in a professional setting using modern best practices, rigorous documentation, and version control. Strong experience in C#/.NET, proficient in C/C++, Golang, Javascript, Java, Lisp. Specific expertise in web, application, creative code, and graphics programming.

Trained in operation of CAD/CAM machines including industrial and consumer 3D printers as well as both industrial and consumer laser cutters. Additional experience working with plasma cutters, CNC mills, and standard workshop tools. Comfortable and capable in design suite applications, including the Adobe Creative Suite (Photoshop, Flash, Illustrator) AutoCAD, Fusion 360, Dynamo Studio.

Projects & Experience

Design and Fabrication Internship at Autodesk (Summer 2015)
Worked in the Office of the CTO on research and development for cutting-edge design software. My work drew on experience in generative design, computational thinking, algorithm design, manufacturing and fabrication techniques, and materials engineering.

Software Engineering Internship at Autodesk (Summer 2014)
Developed plugin software for AutoCAD in C#/.NET. Worked with digital fabrication equipment, including industrial 3D printers and laser cutters. Reverse-engineered the interface to industrial laser equipment and wrote compatible export software.

Currently developing Colorwalk (now in alpha state), a design study of color transition methods that can be used to compute psychochromatically "ideal" gradients and color animations for art, visual design, and UI/UX applications.

Created experimental chat platform Chatsnap, leveraging various APIs and cloud platform technologies to create a global, scalable, irc-like webchat service with novel design that allows users to communicate exclusively through images.

Led volunteer project building computers for schools (Fall/Winter 2013)
Raised over $20,000, then trained and led a volunteer team of 20+ people to build and ship a total of more than 65 complete computer systems to schools in Afghanistan. Configured specialized Linux distribution with local language support and educational software. Planned/priced/sourced a computer system totaling less than $200 per unit.