REUBEN CRIMP

EDUCATION

PGDipSci Computer Science, awarded with Distinction 2016
BSc Major: Computer Science, Minor: Mathematics 2013 — 2015

ACHIEVEMENTS

Scholarship for Academic Achievement in Science (University of Otago) 2014 ACM ICPC Programming Contest regional finals (UNSW, Sydney) 2014

TECHNICAL SKILLS

ProficientC, C#, Java, Swift, Python, JavaScriptFamiliarC++, Haskell, SQL, PHP, GLSL, LATEXToolsvim, git, docker, Xcode, Visual Studio, UnityLibrariesopency, opengl, nltk, three.js, Eigen, SDL

RESEARCH EXPERIENCE

Research Assistant — Anatomy Department, University of Otago 2017 Developed software for annotating anatomical specimens, to be used for teaching. Supervised by Dr. Yusuf Cakmak.

Research Project — CompSci Department, University of Otago
Developed virtual-reality software for chronic stroke rehabilitation.
Supervised by Dr. Steven Mills and Dr. Holger Regenbrecht.

Summer Research Scholarship — CompSci Dept, University of Otago 2015 Designed and developed software for a lenticular auto-stereoscopic 3D display. Supervised by Dr. Geoff Wyvill.

Research Assistant — CompSci Department, University of Otago

Determining the time complexity of network scheduling algorithms.

Supervised by Dr. Haibo Zhang.

TEACHING EXPERIENCE

Tutor — CompSci Dept, University of Otago 2017 — Teaching undergraduate tutorials (lecture style), for 20-30 students.

Tutor — Disability Information & Support, University of Otago 2015 — One on one teaching on subject specific material. Computer science, maths, stats.

Demonstrator — CompSci Dept, University of Otago 2014 — Supervising CS undergrad computer labs, and assisting the students with their work.

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Intern iOS Developer

MixBit - Dunedin Office

2015 - 2016

Worked in a small team developing iOS applications in swift.

PROJECTS & EXPERIENCE

Developed virtual-reality software for chronic stroke rehabilitation. Using C# and C++ with Unity and OpenCV. Involved heavy use of computer vision techniques. Supervised by Dr. Steven Mills and Dr. Holger Regenbrecht.

Designed and developed software for a lenticular auto-stereoscopic 3D display. Determined the internal optical properties of the display, then created several tools in C++, which generate and format 3D content. Supervised by Dr. Geoff Wyvill.

Helped develop a command line shell for linux/OSX/Windows in C. A group project for university, where I was the main programmer, responsible for dealing with IO, pipes and processes on all three platforms.

Other personal projects include CHIP-8 emulator, path tracer, ray caster, triangle rasterizer, and several games made with Unity/C# and open gl/C.