REUBEN CRIMP

EDUCATION

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

ACHIEVEMENTS

Awarded University of Otago Scholarship in Science for academic achievement, 2014 Competed in the ACM ICPC Programming Contest regional finals in Sydney, 2014

TECHNICAL SKILLS

ProficientC, C#, Java, Swift, Python, JavaScriptFamiliarC++, SQL, PHP, Haskell, LATEXToolsvim, git, Xcode, Visual Studio, Unity

RESEARCH EXPERIENCE

Research Assistant — CompSci Department, University of Otago

Determining the time complexity of network scheduling algorithms.

Supervised by Dr. Haibo Zhang.

Research Project — CompSci Department, University of Otago 2015
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 — Anatomy Department, University of Otago 2017 Developed software for annotating anatomical specimens, to be used for teaching. Supervised by Dr. Yusuf Cakmak.

TEACHING EXPERIENCE

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

Tutor — Disability Information & Support, University of Otago 2015 — Taught one-to-one tutorials on subject specific material. Everything from Foundation level up to 2nd year, mainly mathematics and computer science.

Tutor — CompSci Dept, University of Otago 2017 — Hosted tutorials three times per week with a class of 20-30 undergraduate students.

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Industry Employment

Intern iOS Developer

November 2015 — January 2016

MixBit - Dunedin Office

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.