

Aaron Craig's CV

CONTACT INFO	Phone: 027 755 2760 Email: aaroncraig@protonmail.ch Website: github.com/craigthelinguist	24 Mein Street Newtown, Wellington, 6021
SKILLS	Languages: Java, C, Python, Haskell, Prolog, SQL, Bash scripting, XML, JSON, Latex, Alloy, UML, LTSA. Libraries & Frameworks: JUnit, pandas, matplotlib, numpy, curses, OpenGL, XStream, Berkeley Socket API, Swing, Unity. Protocols: HTTP, DNS.	
JOB HISTORY	New Zealand Registry Services, Wellington <i>Research Intern</i> Oct 2014 - Mar 2015 <ul style="list-style-type: none">• Analysis and summary of DNS data using pandas, matplotlib.• Detection and classification of botnet domains using clustering techniques.• Helped gather and verify data used to generate a map of the NZ internet's routing topology. Victoria University, Wellington <i>Sessional Assistant & Tutor</i> Mar 2014 - Current <ul style="list-style-type: none">• Marking tests and assignments; invigilating.• Running tutorials, labs, and helpdesks.• Classes tutored: Intro to Computer Science; Engineering Modelling & Design; Data Structures & Algorithms II; Formal Foundations of Programming. Converga Ltd., Petone <i>Business Processing Clerk</i> Nov 2013 - Mar 2014 <ul style="list-style-type: none">• Data entry and verification.• Sorting files by hand. (I did this using radix sort) Target Furniture, Porirua <i>Temp, Storeperson</i> Nov 2010 - May 2013 <ul style="list-style-type: none">• Furniture removal, delivery, assembly, and repair.• Managing inventory.• Driving forklift.• Training temps.• Assisting and greeting customers.	
INTERESTS & PROJECTS	Natural & Programming Languages. I'm interested in the structure of languages. This includes: compilers, programming language design, and natural language processing. I have made several corpora for Māori and NZ English. I have my own SAT solver that I've been tinkering with. At NZRS I did research into detecting botnets by classifying domain names. As part of that I gave a presentation at the 2015 New Zealand Internet Research Forum. Visualisations. At NZRS I helped verify data used to generate a map of the New Zealand internet. I have implemented several interactive algorithm visualisations (A*, Kruskal's, Knight's Tour, KNN). Computer Science Education. My work in computer science pedagogy keeps me sharp in a diverse number of areas. I am writing an introductory textbook of computer science, partly motivated by my experience as a student. Game Development. Each year I attend Pixeljam, a Wellington-based gamejam. We've made: a 2d lane-runner, a 2d platformer, and a 3d horror game. Recently I started working on a 2d game	

engine in Java, built atop OpenGL.

EDUCATION	Victoria University of Wellington , New Zealand	
	• STAR Programme	2011
	• BA Linguistics & Philosophy	2012
	• BSc Computer Science & Mathematics	2013 - Current
	Tawa College , New Zealand	
SCHOLARSHIPS & AWARDS	• NCEA Level 3 (Merit endorsement).	2011
	Victoria University of Wellington	
	• Victoria Achievers Scholarship	2012
	NZQA	
	• Outstanding English Scholarship	2011
ABOUT ME	Tawa College	
	• Katherine Mansfield Award (English)	2011
	• Leanne Dixon Cup (History)	2011
	I was born in Porirua and live in Wellington. I like reading history, philosophy, and literature. I did amateur boxing for about two years but nowadays just like to watch.	
REFERENCES	Available upon request.	