Aaron Craig's CV

CONTACT INFO

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Website: `github.com/craigthelinguist`

Unit 15, 33-35 Jellicoe St
Loganlea, Brisbane, Australia

SKILLS

Programming Languages: Java, C, Rust, Python, Prolog, Haskell, SQL
Modelling Languages: Alloy, UML, LTSA, Isabelle
Other Languages: Latex, Markdown, JSON, XML
Libraries & Frameworks: JUnit, pandas, matplotlib, numpy, curses, OpenGL, XStream, Berkeley Socket API, Swing, Unity
Protocols: HTTP, DNS

JOB HISTORY

Oracle Labs, Brisbane, Australia
Research Intern   July 2017 – Current
- Work in secure programming languages group to investigate safe systems programming languages.
- Ported the nvm-direct library to Rust.

Victoria University, Wellington, NZ
Research Assistant   Oct 2015 – Current
- Contributed to the Wyvern interpreter: `github.com/wyvernlang/wyvern`
- Worked on effect inference in capability-safe languages.
- My supervisors are *Alex Potanin* and *Jonathan Aldrich*.

New Zealand Registry Services, Wellington, NZ
Research Intern   Oct 2014 – Current
- Analysis and summary of DNS data with pandas, matplotlib.
- Detection and classification of botnet domains using clustering techniques.
- Gather, verify, analyse routing data for generating maps of NZ internet.
- Natural language processing on domain names.

Victoria University, Wellington, NZ
Sessional Assistant & Tutor   Mar 2014 – Jul 2017
- Marking tests and assignments; invigilating.
- Running tutorials, labs, lectures, and helpdesks.
- Classes tutored: Intro to Computer Science (2014); Engineering Modelling & Design (2014); Data Structures & Algorithms II (2015); Formal Foundations of Programming (2015); Programming Languages (2016); Data Structures & Algorithms II (2017)

Converga Ltd., Petone, NZ
Business Processing Clerk   Nov 2013 – Mar 2014
- Data entry and verification.
- Sorting files by hand. (I did this using radix sort)

Target Furniture, Porirua, NZ
Temp, Storeperson   Nov 2010 – May 2013
- Furniture removal, delivery, assembly, and repair.
- Managing inventory, driving forklift.
- Training temps.
- Greeting and assisting customers.

PRESENTATIONS

Aaron Craig. *Jumping Into a Pool of Data*. NZ Internet Research Forum 2015.

Aaron Craig, Lindsay Groves, Alex Potanin, Jonathan Aldrich. *Capability-Flavoured Effects*. OCAP

Workshop, SPLASH, 2017.

EDUCATION	**Victoria University of Wellington**, New Zealand	
	• STAR Programme	2011
	• BSc Computer Science & Mathematics	2016
	• BSc Hons. Computer Science	2017
	Tawa College, New Zealand	
	• NCEA Level 3 (Merit endorsement)	2011
SCHOLARSHIPS & AWARDS	**Victoria University of Wellington**	
	• Victoria Achievers Scholarship	2012
	• Dean's List	Current
	Tawa College	
	• Katherine Mansfield Award (English)	2011
	• Leanne Dixon Cup (History)	2011
	• NZQA Outstanding English Scholarship	2011

INTERESTS   Type systems, effect systems, object capabilities, compiler engineering, computability, decidability, formal methods, natural language processing, programming languages, modal logic

LANGUAGES   English
                   Māori (Elementary)

ABOUT ME   I was born in Porirua and live in Wellington. I like creative writing and reading history, philosophy, and fiction. For two years I boxed as an amateur but nowadays just like to watch. My tribe is Muaūpoko, in Horowhenua.

REFERENCES   Available upon request.