Mike Ledger

An online version of this resume is available at http://quasimal.com/resume.html.

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Elsewhere online	GitHub, Hackage

I'm a programmer and occasional artist living in Canberra, Australia. I'm passionate about all things Haskell and solving real-world problems with computer science. I'm 1 year into studying towards a Bachelor of Advanced Computing at the ANU.

Skills

Haskell	SQL	C	C++
Python	Java	HTML	CSS
JavaScript	Git	Mercurial	OpenGL / GLSL
Modelling	Texturing	Drawing	. . . and more

Original work

Completed or released

indices, a library providing statically bounded array indices, extensively making use of GHC features to have extremely little runtime overhead.

repl, an alternative to `mueval` using the GHC API to evaluate Haskell expressions within time limits. Allows users to declare types, classes etc. as in GHCi.

plissken, a 3D Snake clone, where the Snake moves in 3 dimensions. Used `OpenGLRaw`, `hmatrix`, `GLFW-b` among others.

Level-0, a clone of the Nokia 1100's *Snake II* using the SDL bindings for Haskell.

QuasiText, a simple `QuasiQuoter` for interpolating Haskell values into `Text` strings.

Ongoing

static, a new array library for statically bounded arrays, unrolling operations at compile-time where possible.

Open source contributions

snaplet-recaptcha

- Updated for new ReCAPTCHA API
- Heist support
- Hackage maintainership

lens

- Initial `makeFields` implementation.

hmatrix

- FFI helpers

Red Eclipse

- 3D modelling and animation
- Community support
- Automated Linux builds

Education

Australian National University

2014 - 2018 (expected): *Bachelor of Advanced Computing*

Course		Grade
COMP1130	*Introduction to Programming and Algorithms (Advanced)*	HD
COMP1140	*Introduction to Software Systems (Advanced)*	HD
COMP2400	*Relational Databases*	D
COMP2610	*Information Theory*	D
ENGN1211	*Discovering Engineering*	D
MATH1115	*Mathematics and Applications 1 Honours*	CR
MATH1014	*Mathematics and Applications 2*	CR
STAT1003	*Statistical Techniques*	P

Turramurra High School

Graduated 2013 with an ATAR of 85.90.

References

Available on request.