Remy Goldschmidt

Education

2014–2018 **Bachelor of Science in Aerospace Engineering**, *University of Illinois at Urbana-Champaign*.

Work Experience

Summer 2016 **Software Engineering Intern**, *Uber Advanced Technologies Center*.
Working on infrastructure software for autonomous vehicles in `C++`.

Summer 2015 **Research Intern**, *UIUC Formal Systems Laboratory*.
Reference: Dr. Grigore Rosu
- Worked on software for executable semantics using rewrite logic.
- Wrote `Java` to generate `OCaml` interpreters from semantic specifications.
- octocat | `Java` | + 19062 | - 15342

2013–2014 **Research Intern**, *Columbia University Applied Physics / Applied Math Department*.
Reference: Dr. I. C. Noyan
- Designed and built a sealed standing-wave thermoacoustic refrigerator.
- Studied the effect of waveform input on efficiency in thermoacoustics.
- octocat | `Haskell` | + 4850 | - 2718

Activities

2014– **Club**, *University of Illinois ACM SIGPLAN*, Founder and chair.
Group for discussion of programming language theory and related subjects.

2011– **Hobby**, *Open Source Programming*.

fork	k	`Java`	commit 185	+ 19062	- 15342
	ThomasEngine	`Racket`	commit 60	+ 4142	- 2023
	ThermoCalc	`Haskell`	commit 59	+ 4850	- 2718
	xprintidle-ng	`C`	commit 44	+ 4308	- 12428
	icfp-2015	`Haskell`	commit 36	+ 1381	- 1220
fork	nixpkgs	`Nix`	commit 31	+ 568	- 36

2014– **Hobby**, *NixOS package maintainer*.
Maintainer for kframework, g-wrap, and guile-gnome.

2014– **Hobby**, *Hackathons*.
Attended HackTheNorth 2014 and 2015, Boilermake 2014, WildHacks 2014, and HackIllinois 2015.

Skills

Languages English (native), Latin (5 yrs)
Programming `Haskell` (5 yrs), `Java`, `C`/`C++`, `Clojure`, `Racket`, `OCaml`, `Python`, `MATLAB`, `Mathematica`
Software Linux (9 yrs), git, GNU toolchain, ROOT, Geant4
CAD SolidWorks, Siemens NX, EAGLE
Other Emacs, LaTeX, NixOS

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Technical Education

Courses taken

AE 100	Introduction to Aerospace Engineering
AE 199	Aerospace Computer-Aided Design
AE 202	Aerospace Flight Mechanics
AE 311	Incompressible Flow
AE 352	Aerospace Dynamical Systems
CS 125	Introduction to Computer Science
CS 173	Discrete Structures
CS 241	System Programming
CS 397	Individual Study — Category Theory
CS 421	Programming Languages
CS 422	Programming Language Design
ECE 205/206	Electronic Circuits + Lab
MATH 221/231/241	Calculus I/II/III
MATH 225	Introduction to Matrix Theory
ME 300	Thermodynamics
MSE 280	Engineering Materials
PHYS 211/212	Physics: Mechanics / E&M
STAT 100/200/400	Statistics I/II/III
TAM 210/212	Statics / Dynamics

Fall 2016 courses (subject to change)

CS 225	Data Structures
CS 233	Computer Architecture
CS 476	Program Verification
CS 477	Formal Software Development Methods

Other Courses

Columbia University Science Honors Program

Relativity and Quantum Mechanics	Fall	2012
Computer Programming in Java	Spring	2012
Mathematical Methods in the Physical Sciences	Spring	2013
Astronomy and Astrophysics	Fall	2013
Group Theory	Spring	2014