# Remy Goldschmidt

## Education

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

## Work Experience

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
- | `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
- | `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*.

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

Spring 2016 courses

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|---|---|
| CS 173 | Discrete Structures |
| CS 241 | System Programming |
| CS 421 | Programming Languages |

## Other Courses

Columbia Science Honors Program

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|---|---|---|
| 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 |