

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.
-  | 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, L^AT_EX, NixOS

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)

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

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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 |