

Ben Frankel

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📖 benfrankel.me

🐱 benfrankel

in benfrankel

🏛 Education

Iowa State University

B.S. Computer Science & Mathematics with Honors

3.88 Cumulative GPA

August 2015 – May 2019

Ames, Iowa

💻 Projects

hgf

- Hierarchical GUI framework designed to manage complexity by combining simple components
- Designed convenient API using metaprogramming
- Improved UI performance with dirty rectangle rendering
- Applied topological sort algorithm to dependency resolution
- Implemented text box word-wrapping algorithm

Grid Coloring

- Mathematical grid coloring application (built with hgf)
- Implemented flood fill algorithm
- Utilized data serialization library to save and load grids from a file

Backronym Engine

- Generates interpretations of unknown acronyms

Set Game

- Pattern-matching card game (built with hgf)

🏆 Awards

Regional ACM ICPC

- 6th place

November 2017

North Central North America

William Lowell Putnam Exam

- 105–112th place

December 2015

North America

📖 Skills

Programming (Proficient)

- Python

Programming (Experienced)

- C++, C, Java, Bash, Rust

Programming (Familiar)

- SQL, Emacs Lisp, Haskell, Assembly

Libraries & Frameworks

- SciPy, NumPy, matplotlib

Technologies

- GNU/Linux, Git, HTML/CSS, Heroku, Emacs, \LaTeX