

Ben Frankel

☎ +1 (515) 509-8597

✉ me@benfrankel.com

📖 benfrankel.com

🐙 benfrankel

in benfrankel

💻 Work Experience

Google

Software Engineer

- Implemented SNMP switch telemetry server
- Introduced utility to manage processes in a microservices architecture
- Utilized Linux namespaces to parallelize test suites

June 2019 – June 2021

Sunnyvale, California

MathWorks

Software Engineering Intern (EDG)

- Vectorized functions for x86 with SSE & AVX intrinsics
- Wrote generic C++ code (template specialization, metaprogramming, SFINAE, CRTP)
- Worked directly with IEEE floating-point formats

Summer 2018

Natick, Massachusetts

🎓 Education

Iowa State University

B.S. Computer Science & Mathematics

3.89 Cumulative GPA

August 2015 – May 2019

Ames, Iowa

🌱 Projects

hgf

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

Grid Coloring

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

🏆 Awards

Regional ACM ICPC

- 6th place

November 2018

North Central North America

William Lowell Putnam Exam

- 105–112th place

December 2015

North America

📖 Skills

Programming Languages

- **Proficient:** Rust, Python, C++
- **Experienced:** Go, C, Bash, Java, x86 Assembly
- **Familiar:** JavaScript, TypeScript, SQL

Technologies

- GNU / Linux, Git, Emacs, HTML & CSS