

Ben Frankel

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in benfrankel

💻 Work Experience

Google
Software Engineer

June 2019 – Present
Sunnyvale, California

MathWorks

Software Engineering Intern (EDG)

Summer 2018
Natick, Massachusetts

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

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

Libraries & Frameworks

- **Experienced:** OpenMP, Angular, jQuery, Bootstrap
- **Familiar:** Spring, SciPy, NumPy

Technologies

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