

Daniel Smith

daniel@danielsmith.io |github.com/futuroptimist |linkedin.com/in/danielsmith4483

Skills & Practices

Languages: Python, Go, SQL, C++, JavaScript (ES6+), TypeScript, Ruby, Objective-C

Technologies: Google-specific (Borg [Kubernetes+Docker], GoogleSQL, GSLB); React, Vue, Svelte, Next.js, Astro, LLM prompt engineering

Experience

YouTube (Alphabet)

Site Reliability Engineer

San Bruno, CA

Sep. 2018 – Present

- Promoted to L4 in Dec. 2021, demonstrating leadership in critical projects.
- Built scalable solutions to improve YouTube reliability, impacting billions.
- Developed key reliability metrics used by YouTube leadership.
- Consulted with teams across Alphabet to enhance metric analysis.
- Automated reliability monitoring using Python, Go, SQL, and C++.
- Mentored new team members and improved onboarding.

Naval Research Laboratory

Software Engineer

Stennis Space Center, MS

Jan. 2017 – Sep. 2018

- Developed C++ (Qt) applications for data processing and analysis.
- Delivered new features in a Scrum-based team on strategic projects.
- Traveled to remote teams for collaboration and knowledge transfer.

The University of Southern Mississippi

Software Developer

Hattiesburg, MS

Mar. 2014 – Dec. 2016

- Built a content-delivery framework for university iOS apps in Objective-C and Swift.
- Developed networking libraries to support real-time app updates.

Notable Side Projects

- **democratized.space** – Text-based space management game (GitHub: [democratizedspace/dspace](#)).
- **token.place** – Encrypted platform for sharing CPU/GPU compute (GitHub: [futuroptimist/token.place](#)).
- **f2clipboard** – CLI utility for copying multiple files, including nested directories (GitHub: [futuroptimist/dspace](#)).
- **[OpenGL demonstration]** – implemented shaders, skybox, lighting, bump maps (GitHub: [dsmith86/csc425-project](#)).

Education

The University of Southern Mississippi

Master of Science in Computer Science; GPA: 4.0

Hattiesburg, MS

Aug. 2015 – Aug. 2016

The University of Southern Mississippi

Bachelor of Science in Computer Science; GPA: 4.0

Hattiesburg, MS

May 2013 – May 2015

Jones County Junior College

Associate of Applied Science in Information System Technology; GPA: 4.0

Ellisville, MS

Aug. 2011 – May 2013