Maddy Blue

me@maddy.blue
https://maddy.blue/
https://github.com/maddyblue

Work Experience

Aug 2020– Aug 2024

Materialize
Engineer. *rust, sql*
Designed and implemented features near the SQL layer including system architecture, wire protocol, correctness, transactions, authentication, ingress balancer. Designed and implemented changes for the SaaS cloud product.

Dec 2015– Aug 2020

Cockroach Labs
Staff Engineer. *go, sql*
Automated the finding of hundreds of bugs in CockroachDB using SQLsmith and other randomized testing. Designed and implemented features for CockroachDB including driver protocol, SQL functions and types, distributed CSV import, and Kerberos authentication. Maintainer of lib/pq, a Go Postgres client driver.

July 2015– Nov 2015

CoreOS
Developer. *go, python, kubernetes, docker*
Features and maintenance for Quay.io.

Mar 2012– July 2015

Stack Overflow
Developer. *go, c#, javascript, sql-server, angularjs*
Features and maintenance for Stack Overflow Careers. Internal applications for the SRE team. Primary author of Bosun, a Go-based monitoring and alerting system.

June 2011– Mar 2012

Seagate Technology
Senior Engineer. *python, mysql*
Wrote and maintained various custom tools and web apps to address or discover internal issues and problems.

2000–2015

US Geological Survey
Consultant. *java, sql*
Worked with a scientist to implement algorithms in usable programs. Various implementations written in C++, Java, PHP, SQL.

Selected Software Development

goread
Open-source RSS reader in Go, on App Engine with AngularJS. Was profitable, with hundreds of paying users.

sqlfum.pt
SQL formatter with algorithmic line breaking.

moggio
Audio player in Go that can play various kinds of music (wav, mp3, flac, vorbis, nintendo sound files) from different sources (google drive, dropbox, soundcloud, bandcamp, shoutcast, local machine) and works the same on popular OSs (Linux, Mac, Windows).

acre
LSP client for the acme editor, written in Rust.

Education

2009

M.S., Electrical Engineering
Colorado State University. TA for EE451 (Digital System Design), EE571 (VLSI System Design).

2007

B.S., Computer Engineering
Colorado State University. Second place at E-days competition for our pipe/electronic organ. I conceived and led the project. I taught myself Verilog, programmed the FPGA, and wrote a paper on a new method for synthesizing pipe organs.

2007

B.M., Piano Performance
Colorado State University. Wendel Diebel award for musicianship. Also learned quite a bit of organ.