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📁 WORK EXPERIENCE

Software Engineer — Beeper — Remote July 2021 - Present

- Core member of a team which implemented a **Matrix** homeserver called Hungryserv which enabled us to scale from hundreds of users to tens of thousands of users.
- Implemented a LinkedIn Messages bridge in **Python**.
- Built a Chatwoot bot in **Go** to help streamline our support team's process.
- Instrumented bridge metrics for measuring message send latency and reliability. Built a service to process those metrics and send them to BigQuery.
- Defined a framework for importing users' chat history, and implemented it in the WhatsApp, Facebook, Instagram, and iMessage bridges.

Adjunct Professor — Colorado School of Mines — Golden, CO Aug. 2018 - Present

- CSCI 406 **Algorithms** in Fall 2018, Spring 2022, and Fall 2023.
Topics Included: analysis of algorithms, evaluation of data structures, sorting algorithms, graph algorithms, dynamic programming, and NP-completeness.
- CSCI 341 **Computer Organization** in Spring 2023.
Topics Included: RISC-V assembly, computer arithmetic, processor design, and memory hierarchy.
- CSCI 400 **Principles of Programming Languages** in Spring 2019, Fall 2020, Fall 2021, and Fall 2022.
Topics Included: programming language evaluation, Python, Lambda Calculus, functional programming, Racket, OCaml, programming language implementation.
- CSCI 564 **Advanced Computer Architecture** in Spring 2021.
Topics Included: cache, pipelining, memory hierarchy, virtual memory, branch prediction, multiprocessor architectures, and cache coherence.

Software Engineer — The Trade Desk — Denver, CO June 2019 - July 2021

Software Developer — Can/Am Technologies, Inc. — Lakewood, CO Feb. 2013 - Aug. 2016

📖 EDUCATION

Colorado School of Mines — Golden, CO — M.S. Computer Science — 4.0 GPA Aug. 2018 - May 2019

- Chair of Mines ACM, Service Chair of Tau Beta Pi, **Linux** Help Guru of Mines Linux Users Group (LUG)

Colorado School of Mines — Golden, CO — B.S. Computer Science — 3.9 GPA July 2016 - May 2018

- Outstanding Graduating Senior for Computer Science

Red Rocks Community College — Lakewood, CO — 67 Credit Hours — 4.0 GPA Aug. 2012 - May 2016

</> NOTABLE PROJECTS

Sublime Music (Author) — gitlab.com/sublime-music/sublime-music — GPLv3 November 2018 - Present

- A native Subsonic client for Linux built using **GTK** and **Python**.
- Allows users to connect to multiple Subsonic API-compliant servers and browse and play songs from them.

Nix Home Manager (Maintainer) — github.com/nix-community/home-manager — MIT April 2021 - Present

👤 TALKS AND PRESENTATIONS

- **Hungryserv: A Homeserver Optimized for Unfederated Use-Cases** — Berlin Matrix Summit August 2022
Discussed a Matrix-compatible homeserver that Beeper uses to handle unfederated bridge traffic.

🏆 PRIZES AND AWARDS

- *First Place* at the 2018 Facebook Global Hackathon Finals at Facebook HQ for *HypAR Map* November 2018
- *Fourth Place* in 2018 Regional ACM International Collegiate Programming Contest (ICPC) November 2018