

Jonathan Sumner Evans

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🧰 WORK EXPERIENCE

Software Engineer — Beeper — Remote

July 2021 - Present

- Reverse engineered and implemented many core features for **Beeper Mini** including sending media, tapbacks, typing indicators, read receipts, edits, unsends, link previews, adding and removing group members, and changing group names and avatars.
- Started a project called *Hungryserv* (**Matrix**-compatible homeserver written in **Go**) which enabled us to scale from hundreds to tens of thousands of users. I created the initial proof of concept and then was a core member of the team that productionized the project, implementing many core features along the way.
- Streamlined our support team's ability to chat directly with users by building a Chatwoot bot in **Go**.
- Reverse-engineered the LinkedIn Messaging API and implemented a LinkedIn bridge in **Python**.
- Measured message send **latency and reliability** by instrumenting bridge **metrics**. 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 (in-progress) iMessage bridges.

Adjunct Professor — Colorado School of Mines — Golden, CO

Aug. 2018 - Dec. 2023

Responsibilities:

- **Lecture** to classes of 60+ students.
- Hold **office hours** to assist students on projects and homework.
- Coordinate course content and grading policies with TAs and other instructors.
- **Design homework** assignments and worksheets.
- **Develop new projects** with starter code.

Courses:

- **Algorithms** (3×)
graph algorithms, dynamic programming, NP-completeness
- **Computer Organization** (1×)
RISC-V assembly, processor design, memory hierarchy
- **Principles of Programming Languages** (4×)
functional programming, language implementation
- **Advanced Computer Architecture** (1×)
cache coherence, virtual memory, branch prediction

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 — B.S. + M.S. Computer Science

July 2016 - May 2019

- Outstanding Graduating Senior for Computer Science
- Chair of Mines ACM, Service Chair of Tau Beta Pi, **Linux** Help Guru of Mines Linux Users Group (LUG)

</> NOTABLE PROJECTS

Sublime Music (Author) — github.com/sublime-music/sublime-music — GPLv3

November 2018 - Present

- A native Subsonic music server client for Linux built using **GTK** and **Python**.

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