

# Jonathan Sumner Evans

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## 🧰 WORK EXPERIENCE

**Software Engineer** — Beeper — Remote July 2021 - Present

- Reverse engineer and implemented many features for **Beeper Mini** including tapbacks, typing indicators, read receipts, edits, and unsends.
- Started a project called *Hungryserv*: a **Matrix**-compatible homeserver written in **Go** which enabled us to scale from hundreds to tens of thousands of users. Worked on small team to productionize the project.
- 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 - Present

### 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 — 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) — 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