

Soeren Walls

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- BA in CS from [top-30 liberal arts](#)
- 5+yrs experience as a tech lead
- AI[1] and self-driving car[2] enthusiast
- 10+yrs experience in software
- NJ→CO→Budapest→CA→CO
- Open-source and google3 experience

EXPERIENCE

Senior Software Engineer

Nov. 2023 – Present

Google Cloud (Reliability Infrastructure)

Denver, CO (remote)

- Expanded scope of responsibilities as Tech Lead (TL) of 30 software engineers (SWEs) for 5 internal product teams
- Wrote full-stack req's and design docs for new featureset, delegated to 3 SWEs, launched to >200 internal MAUs; reduced toil by 1.5 SWE yrs across 90% of Cloud revenue streams in 6mo.; projected to save 18.5 SWE yrs in 1yr
- Organized fix-it sprints for team; personally reduced tech debt in TypeScript/Golang codebase by 10d in 1 quarter
- Guided engineers to consistently maintain >90% incremental code coverage and >80% absolute coverage as TL
- Wrote asynchronous test harness predicates that reduced end-to-end test flakes from >30% in some cases to <1%

Software Engineer III

Nov. 2019 – Nov. 2023

Google Cloud (Engineering Productivity and Developer Intelligence)

Denver, CO (remote)

- Designed RESTful APIs and led a team of 3 SWEs to implement Angular web app in 6 months that secured the product's success, in the first year saving 56.1 SWE yrs in toil reduction across 90% of Cloud revenue streams
- Taught Angular dev & test best practices to 14 engineers as TL; guided 3 release engineers to convert to SWE
- Reduced customer onboarding time by 99.6% (72h → 15m) by implementing empty states averaging 1 click/day
- Kept user trust by removing time-zone bugs; drove wide adoption of CivilDate library to avoid future regressions

Software Engineer II

Mar. 2018 – Nov. 2019

Google Cloud (Engineering Productivity)

Sunnyvale, CA

- Led 3 SWEs to implement App Engine microservices in Java with Polymer FE after successful demo to leaders
- Gave microservices tech talk to audience of 500 at [Cloud Next SF](#) and 334 at [Next UK](#) with 90% positive feedback
- Reviewed 59K+ lines and contributed 65K+ lines of Java/JavaScript according to Google best practices as TL

Engineering Resident

Sep. 2017 – Mar. 2018

Google

Mountain View, CA

- Contributed 10K+ lines of Java and JavaScript; learned Borg, Spanner, Flume and BigTable internal technologies

PROJECTS

[Turtle.xyz](#) | *TypeScript, React, Docker, Tailwind*

Jan 2022 – Present

- Forked a popular GitHub repository, implemented service workers to support offline play, added custom features
- Wrote a permutation generator that guarantees a unique daily sequence of turtle animation frames for 42 years
- Peaked at 9.5K daily active users in Apr 2022, still maintains 1.3K monthly active users 2.5 years post-launch

[RoomM8.io](#) | *NodeJS, Bootstrap, ExpressJS, MongoDB, Redis, AngularJS*

June 2017 – Oct 2017

- Developed a full-stack web application using ExpressJS on Node serving MongoDB data rendered with AngularJS
- Implemented Google OAuth to authenticate users' emails, stored user session information in Redis Cloud DB
- Wrote a heuristic recommendation algorithm based on user preferences; I matched with an awesome roommate
- Matched at least 5 roommate pairs out of approx. 50 users (new Google employees) who voluntarily signed up
- Wrote an efficient text and filter-based search algorithm with custom filters for role, start date, location, etc

EDUCATION

Colorado College

Colorado Springs, CO

B.A. in Computer Science & Theatre w/distinction, summa cum laude, 4.0 GPA

Aug. 2013 – May 2017

Budapest University of Technology & Economics

Budapest, HU

Computer Science semester abroad, 3.9 GPA

Aug. – Dec. 2015

TECHNICAL SKILLS

Languages (advanced): Java, TypeScript, JavaScript, HTML/CSS | **Languages (proficient):** Python, C/C++, SQL

Frameworks: TensorFlow, Android, Angular, React, Lit, NodeJs, SpringBoot, Material-UI, WordPress, StrapiCMS

Developer Tools: Git, Mercurial, Docker, TravisCI, Google Cloud (GCF, GAE, GKE, BigQuery), AWS, VS Code

Libraries: Arduino, OpenCV, OpenGL, NumPy, Matplotlib, Java Futures, Vega-lite, Google Charts, Google Analytics