

Joshua De Matas

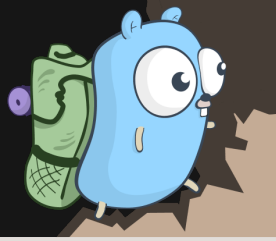
Software Engineer

<https://www.joshuadematas.me>

Jönköping, Sweden

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Summary

Operating at a **high level** — leading projects, designing architecture, and building tools across domains. I've built backend platforms, SSH tunnels, and CLI tools, always with a focus on performance, clarity, and maintainability.

Noteworthy projects

BURNR — Tech lead, Social fitness platform [↗](#)

A social fitness platform built primarily in Go and React Native.
professional project

- Led backend design, service boundaries, and tech stack decisions.
- Designed hybrid storage using PostgreSQL, Firestore, and Cloud Storage.
- Integrated Apple Health syncing and leaderboard ranking based on user goals.
- Upgraded caching and pub/sub with Dragonfly and Redpanda.
- Deployed backend on self-hosted VPS using Docker Stack/Swarm.

Garden Observer — Real-time 3D Robot Visualization [↗](#)

A full-stack web app to monitor live and simulated robot lawnmowers in 3D.
professional project

- Combined Unity Wasm for 3D rendering with Blazor for UI and control layer.
- Parsed SVG layouts to generate meshes for 3D environments.
- Used an internal event hub for real-time robot telemetry, updating position in 3D space.
- Created a Blazor-to-Unity component bridge (akin to custom React renderer).

Coconut — SSH-Based HTTP Tunnel [↗](#)

An HTTP tunnel over SSH in Go (similar to Ngrok), using only standard libraries.
hobby project

- Designed reverse proxy routing based on subdomains and SSH channels.
- Added multiplexed and dedicated tunnels to handle websockets and long-lived connections.
- Currently building a production-ready version with full monitoring and tests.

Cinnamon — Self-Hosted Media Server [↗](#)

Created a self-hosted service to capture and store HLS video streams.
hobby project

- Built a Go backend using FFmpeg to convert and stash videos.
- Integrated MinIO (S3 compatible) storage and built a lightweight web UI.
- Developed a custom browser protocol (cinnamon://) to launch downloads from the web.

Explore more projects at [joshuadematas.me](https://www.joshuadematas.me).

Languages

Bilingual in [English](#) and [Swedish](#)

I am born in the Caribbean and moved to Sweden in 2007.

Technical skills

Go Docker GCP React
Terraform PostgreSQL Redis
Redpanda OpenTelemetry C#
Sqlite Unity Javascript
S3 storage Github SQL

Hobbies

Programming Games Art

I enjoy making random programs and exploring solutions. Lately, I've been diving deeper into the internals of the tools I use and exploring how things really work.

Currently exploring

I am currently exploring [Deterministic Simulation Testing](#), a concept I first encountered through [TigerBeetle](#). The talk [Testing Distributed Systems w/ Deterministic Simulation](#) sparked my interest and offers great insights.

References

Tommy Gustavsson, Software Architect
Husqvarna Group, Work/character reference

Thomas Jansson, Lead Senior Software Engineer
Husqvarna Group, Work reference

Malin Janrup, Technical Project Manager
Husqvarna Group, Character reference

Contact details for references available upon request.

Experience

Programming since 2015, professional since 2020. Software engineering is both my profession and creative outlet.

Tech Lead, Senior Software Engineer

BURNR

2024 - Now Remote

Go

GCP

Pub/Sub

Redis

Firestore

PostgreSQL

Terraform

Grafana

Prometheus

OpenTelemetry

- Leading a small team in building a robust platform.
- Primarily built around GCP using Terraform.
- Using simulation-based and Testcontainers-driven testing to validate system behavior.
- Mentoring two junior engineers, supporting their growth through code reviews, architectural discussions, and pair programming.

Software Engineer

Husqvarna Group, Robotics R&D

2022 - 2024 Huskvarna, Sweden

Go

Azure

Unity

DotNet

C#

Blazor

Algorithms

- Started with simulation software in Unity, then moved into broader R&D tooling.
- Later positioned as an internal project incubator and successfully led four projects from concept through implementation and launch.
- Developed internal tools that resolved key pain points and improved workflows across teams.
- Maintained a high standard across diverse domains – from Blazor and 3D web to Azure, algorithm optimization, CLI tools, and backend services.

Software Engineer

Jönköping University, ROL Ergo

2021 Jönköping, Sweden

PostgreSQL

NodeJS

Express.js

Vue

Socket.IO

- Collected heat and motion sensor data that was visualized in a web UI.
- Enhanced sensor data usability by processing over 15 sensors in real time.

Laboratory Engineer

Jönköping University

2020 - 2022 Jönköping, Sweden

Docker

AWS

Go

Swift

C++

NodeJS

SQL

- Created technical guides on Docker, MS SQL, and iOS development used in student instruction.
- Mentored over 25 students across two academic years.
- Taught subjects such as databases, data structures and algorithms, OOP, Node.js development, iOS development, and network programming.

Education

B.S. Computer Science

Jönköping University

2019 - 2022 Jönköping, Sweden

Scholarship

Jönköping University

Chosen as one of the top-performing students to compete in a coding challenge at Jönköping University. Awarded a 15,000 SEK scholarship for building a full-stack admin system with React, Node.js (NestJS), Redis, and PostgreSQL.