

Jonas Groening

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EDUCATION

University of Michigan, Ann Arbor

Aug 2022 - May 2026

B.S.E, Computer Science

Ann Arbor, MI

GPA: 3.95 | **Activities:** Michigan Venture Club, V1 @ Michigan, UM Autonomous Robotic Vehicle

Coursework: Data Structures & Algorithms, Distributed Systems, Web Systems, Computer Architecture, Analysis of Algorithms, Technical Communication, Linear Algebra, Discrete Math

EXPERIENCE

Glean

May 2025 – Present

Software Engineer Intern - Crawler Infrastructure

Palo Alto, CA

- Engineered a hostname filtering engine for crawler network traffic replacing AWS DNS Firewall, reducing monthly networking costs by 65% while providing fine-grained control over 8M+ daily egress requests.
- Deployed DNS query logging infrastructure with Terraform and implemented Hive SQL partitioning, enabling sub-second query response times and threat analysis of egress activity.
- Leading efforts to open-source GleanProxy, a Java proxy for private subnet connections, including setting up a build system with Bazel and CI with GitHub Actions, enabling external security analysis and community contributions.

Courier Health

Sep 2024 – Nov 2024

Software Engineer Intern - Data Platform

New York City, NY

- Engineered a metrics collection system for the data ingestion pipeline processing 100+ files daily using TypeScript, tracking completion time, success rate, data integrity, and other information in PostgreSQL.
- Deployed a GraphQL API through AWS Lambda for metrics retrieval and visualized using React, providing critical pipeline observability and diagnostics, bringing failure investigation time from 5+ minutes down to <60 seconds.
- Developed an algorithm to recursively fetch and visualize field-level modification histories of objects in AWS DynamoDB, enabling engineers and customer support to track granular changes in patient data.
- Organized stakeholder meetings, gathered requirements, and created design proposals, driving product iteration.

Vectra AI

May 2024 – Aug 2024

Software Engineer Intern - Distributed Compute

Austin, TX

- Piloted scalable event-driven architecture for high workload tasks with Python and Celery, cutting AWS costs by 25%, halving CPU and memory allocation, and eliminating the need for 13 Kubernetes cronjob deployments.
- Minimized concurrent Celery broker and backend connections by optimizing pool sizes, lowering memory footprint by 34% for Redis, 10% for MariaDB, and driving down cloud compute costs.
- Leveraged Terraform to orchestrate S3 Access Point integrations and visualized time-series bucket usage data through Grafana, providing process-level cost observability and identifying areas for expense reduction.

CriTech Research

May 2023 – Aug 2023

Software Engineer Intern - Analytics Engine

Saline, MI

- Shipped redesigned endpoints for a medical patient portal using C# and .NET Core, removing unnecessary MySQL queries and accommodating a 10% growth in compliance data requests.
- Optimized API reliability by adding 100% coverage tests (unit, integration, blackbox) to a CI pipeline, saving ~2 hours of manual testing weekly and providing high service availability.

PROJECTS

quarry.video | NextJS, Python, Django, Go, Terraform, MongoDB

- Architected a full-stack application with NextJS, Django, MongoDB, and Prisma, providing a robust in-browser interface for short-form content generation, video editing, and data visualization.

Distributed Key-Value Store | Go, Networking, Concurrency

- Built a fault-tolerant and highly available key-value store using Paxos for replication and sharding for scalability.

SKILLS

Languages: Python, Go, TypeScript, JavaScript, Java, C++, SQL

Technologies: Linux, Git, Docker, Terraform, Kubernetes, FFmpeg, Django, Flask, NextJS, GraphQL

Interests: Soccer, Personal Finance, Traveling, Hiking, Cats, Lifting