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 - Platform

Palo Alto, CA

- Built a lightweight proxy server using Java and LittleProxy to replace AWS NAT Gateway for private subnet internet access, reducing cloud networking costs by 60% while maintaining performance.
- Implemented custom DNS filtering logic in the proxy server as an alternative to AWS DNS Firewall, further cutting monthly infrastructure expenses and providing granular control over egress network traffic.
- Orchestrated DNS logging infrastructure for private VPC environments using Terraform, enabling comprehensive network monitoring and debugging tools.

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 as an 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, GraphOL

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