Miriam Budayr

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EXPERIENCE

Replay.io - *Software Engineer*

AUGUST 2022 - JULY 2024

- Orchestrated and scheduled thousands of stateful containers to enable interactive debugging sessions.
- Designed and implemented the creation and caching of Chromium browser process memory snapshots, improving debugging session startup performance by over 10 times.
- Optimized inter-process scheduling systems to efficiently handle large volumes of data transfer via WebSockets, both within the backend and between the backend and users.
- Oversaw large-scale data management of thousands of petabytes of data across distributed systems, ensuring efficient storage, retrieval, and metadata management.
- Extensively used OpenTelemetry distributed tracing to diagnose and fix performance issues from the runtime process level up to the container orchestration level.
- Designed and implemented a protocol caching layer that reduced start times from minutes to seconds.

Vyne Medical (formerly Ahana Health) - *Software Engineer*

JULY 2020 - AUGUST 2022

- Worked directly with the CTO as a key team member with responsibility over the entire codebase covering both server and client code.
- Spearheaded the design and development of the Shared Care Plan, an updated and detailed medical record that facilitates collaboration between patients, providers, and guardians.
- Redesigned and re-engineered the video conferencing code used for telehealth visits to improve its maintainability and reduce support calls.
- Added support for screen-sharing and network quality feedback for telehealth visits.

Mozilla Firefox - *Open Source Engineer*

MARCH 2019 - JULY 2020

- 20+ merged pull requests into Firefox's codebase.
- Recognized for significant contributions to Mozilla by being invited to Mozilla's Annual 5-day conference called All Hands in Berlin, Germany.
- Built server and front-end functionality for watchpoints, a new feature that pauses the debugger wherever selected properties on objects are accessed or changed.
- Published an article for Mozilla Hacks about the watchpoints feature.

EDUCATION

University of Tennessee, Knoxville - *Bachelor of Music in Theory & Composition, Music Minor in Piano*

2012-2016