# {MICHAEL FRENO}

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## SOFTWARE ENGINEER

## PROFESSIONAL EXPERIENCE

**Data Annotation**

*AI Alignment Engineer (Jan. 24 - Current)*

- Test AI models in many programming languages
- Fix code created by AI models, with explanations as to why it is wrong / what needed to be improved
- Grade other human engineers on their gradings / corrections / interactions with AI models
- Red team models - try to get them to write code that is incorrect / unethical / illegal

**Self Employed**

*Indie Game Developer (Nov. 23 - Current)*

- Full product lifecycle - Manage all phases from ideation, prototyping, and development to launch and live operations.
- Design and implement game mechanics, UI/UX, visual assets and (some)original audio.
- Design server and database architecture
- Set up telemetry and user feedback channels to inform ongoing balancing and feature development.

**Self Employed**

*Freelance Website Developer (Jan. 23 - Current)*

- Communicate with clients to determine what their needs are
- Provide design drafts to nail down aesthetic preferences
- Develop website and deploy

## MAJOR PROJECTS

**FlexLöve**

*The most advanced UI library for LÖVE 2d (game engine)*

- Utilizes a flexbox layouting logic so anyone who knows css can run with it
- Dual mode rendering, both immediate (elements recreated every frame to reflect state changes) and retained (elements are persisted - more performant)
- Powerful theming support - custom parsing of 9patch files (resizeable bitmaps)
- Powerful and granular event handling
- CI/CD Pipleine that creates fully detailed (and versioned) documentation and creates releases of varying sizes (optional modules)

**Life and Lineage**

*A mobile game built utilizing React Native.*

- Complex State management using mobx
- Per-User Cloud Database implementation for cloud-saves
- Implemented PvP with offline progression and automated notifications
- Implemented JSON hotfix solution that allows for balancing updates from change to live in minutes
- In-app purchases using RevenueCat
- Currently available in Apple's App Store.

**freno.me**

*My portfolio / blog*

- <1.5s P99 First+Largest Contentful Paint across hundreds of visitors
- On-site text editor, with database persisted history(diffs) for quick rollbacks, supports complex diagram creation and AI text completions(infill) using a remote self-hosted model
- Branching chat section with real-time updates powered by a Websocket written in Go. Deployed as a docker container on GCP

## PROFESSIONAL EXPERIENCE CONT.

**Self Employed**
*Powerlifting Coach / Movement Specialist
(Sept 2018 - 2023)*
- Prepare Clients for Powerlifting Meets or improve strength and movement quality
- Develop a lifting program depending on needs and time distance to next meet
- In person coaching for movement refinement
- Accompany and manage athletes at powerlifting competitions

**Campbell Soup Company - Camden**
*Associate Technologist (Jan. 22 - July 2022)*
- Conducted thermal test runs and analysis of product before and after processing
- Coordinated and scheduled tests amongst multiple production teams
- Managed multiple teams through the day
- Analyzed heat penetration testing with the Thermal Process Specialist and Corporate Process Authority
- Traveled to manufacturing plants to validate product processing

*Operator (Sept. 21-Jan. 22)*
- Produced test runs at scale
- Operated and maintained industrial-sized equipment
- Safely handled hazardous materials
- Internally tested and produced new products for consumers

*Lab Technician R&D (Jan. 21 - Sept. 21)*
- Maintained inventory and prepared ingredients for product test runs
- Shipped finished products out to remote testers
- Tracked expiration dates for product disposal

## EDUCATION

**RUTGERS UNIVERSITY - New Brunswick**
B.A. in Biological Sciences
Fall 2015 - Spring 2019