

Dan Gieschen Knutson

giesch.dev

<https://github.com/Giesch>

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Brooklyn, NY

Recurse Center – *Retreat Participant (Rust/Slang)*

Jan 2026 – Present

Vulkan & Slang Renderer

- Type-safe shader bindings via codegen (like OpenAPI for your GPU)
- Pipelined compute shaders for maximally parallel simulations (eg. fluids)

TriumphPay – *Senior Software Developer (Ruby/Elm/TypeScript)*

Jan 2024 – Dec 2025

- Built a pipeline for receiving & parsing EDI files, using AWS services & an external vendor, unlocking a new customer vertical (Less-than-Truck-Load / LTL)
- Built custom UI components and backend rules engine for factor credit rating rules, allowing our customers to automate a significant amount of manual work
- Added frontend observability/error reporting to our in-house GraphQL-like framework

Contractor – *Software Developer (TypeScript)*

Jan 2023 – Dec 2023

- React Native development for Best Buy's consumer-facing membership application
 - integrated existing Java services into a newer federated GraphQL API
 - helped get a new member savings 'achievement' ui over the line before deadline

OutSchool – *outschool.com – Software Developer (TypeScript)*

Jan 2022 – June 2022

- Full-stack development with Postgres, TypeScript, React, and Apollo GraphQL
- Adapted Outschool's B2C schema and services for a B2B offering for schools
- Left amid layoffs and the company pivoting away from supporting public schools

Artisan – *artisantechgroup.com – Software Developer (TypeScript)*

Apr 2021 – Dec 2021

- Development on a new white labeled React Native app in the insurance industry
 - built an MVP through customer interviews and our upstream provider
 - wrote a typesafe sdk for 3rd party API integration covering our use case
- Left to seek a longer-term product role

LeanTaaS – *leantaas.com – Software Developer (Java/TypeScript)*

Oct 2019 – Apr 2021

- Backend feature development on a Java Play application for healthcare scheduling
- Redesigned and reimplemented email scheduling system using AWS Lambda & SQS
- Added summary email notifications with visualizations for hospital administrators
- Improved error handling and reliability in shared libraries & services

Cerner – *cerner.com – Software Developer (Java/JavaScript)*

Aug 2017 – Jan 2019

- Java REST & RabbitMQ services for a React-based mobile messaging application
- Added configuration for "forgetting" patient information to comply with GDPR
- Added Slack-like "several users are typing.." live updates for a company hackathon

Thomson Reuters – *thomsonreuters.com – Intern (TypeScript)*

Jan 2017 – Aug 2017

- UI development using Angular 2+, NgRx, and TypeScript

University of Iowa, Iowa City – *BA in Computer Science, History*

Aug 2017