LUKE COOK

Software Engineer

@ invocatis@gmail.com

(607) 220-4047

Aurora, New York

in linkedin.com/in/invocatis

github.com/invocatis

EXPERIENCE

Software Engineer Contractor

Hyperfiddle

🛗 June 2020 - Present

Remote

• Full stack development for CRUD App framework

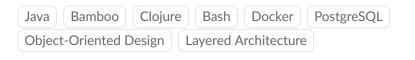
Clojure Clojurescript Datomic

Application Programmer II

Cornell University

🛗 June 2019 - June 2020

- Backend of Genomic Data ETL application
- Created CSV file digest framework
 - Data is streamed from file to PostgreSQL Database
 - JSON file declares how table rows are gotten from file
- Developed a framework for automated system testing; focused on composability, ease of use, and self-cleanup
 - Developed domain-specific scripting language to simplify semantic layer of test suite in 3 layers: Arrange/Act, Assert, and Cleanup
 - Was implemented in 3 layers: A framework backend (written in Clojure), a business logic middle layer (Written in Java), and a testing logic script suite (Written in syntax defined by backend framework)
 - Cleanup ensured automatic test independence and idempotency
 - Produced JUnit results for integration with Bamboo CI/CD Pipeline



Software Engineer Coop

Intuit

January 2018 - July 2018

Mountain View, California



Point-of-Sale Development

Swiftwater Brewing

2015 - Present

Rochester, NY

Java Swing MySQL PCI/DSS Linux

EDUCATION

Bachelor's of Computer Science

Rochester Institute of Technology

2017

Rochester, New York

LANGUAGES

Clojure(script)

Java Kotlin

Scala

Haskell



TECHNICAL SKILLS



PROJECTS

retort

State Managment for Hiccup

github.com/invocatis/retort

- CSS-like DSL for state dependencies, and transitions
- Gives robust ability to select and add attributes or arguments to hiccup structures
- Separates state and view logic elegantly

flip

Polyglot Database Solution

- Provides logic for creating, and including data-management modules
- Modules provide common features from existinc database solutions [id schemes, field inclusion/exclusion, data types/sizes, inheritance]

motif

Recursive Pattern Matching in Clojure

- ogithub.com/invocatis/motif
- Comprehensive, clean DSL for matching features of recursive, mixed data structures
- Patterns are data: Clojure collections and functions compose into patterns