LUKE COOK

Software Engineer

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I am a computer scientist, who wants to work in the software field using functional programming, microservice architecture, and strong abstractions

EDUCATION

Bachelor's of Computer Science

Rochester Institute of Technology

2012-2017 Rochester, Ny

EXPERIENCE

Software Engineer Coop

Intuit

January 2018 - July 2018 Mountain View, California

- Account signup backend development & implementation
- Worked in Agile team with daily standups, weekly meetings, and bi-weekly sprints
- Wrote a Java API for document upload, indexing documents in SQL Database and storing in AWS S3
- Created slash command for integrating SQL within Slack written in Clojure. Supported macros to simplify complicated statements, Slack context namespaces (user, team, channel, or global), and any SQL flavor that had a driver loaded into the microservice.

Java | Oracle SQL | Amazon S3 | Springboot | REST | OOP | Agile | Slack | CFG | Clojure

Point-of-Sale Development

Swiftwater Brewing

January 2015 - Now Rochester, NY

- Created a Point of Sale solution in Java and Java Swing, with MySQL Database
- Fulfilled credit card processing standards of security (PCI-DSS), ensuring the safe handling of credit card data
- Manage network architecture; setup OpenVPN to allow remote access to brewerery equipment and POS system for maintenance.
- Worked as a bartender, using my solution and being around those who used it. Listened to their stories, complaints, and suggestions and incorporated them as new features.
- Introduced Slack as means of communication, especially for shift coverage

Java | Java Swing | MySQL | PCI/DSS | Linux

LANGUAGES

Clojure(script)	●●●●○
Java	●●●●○
Kotlin	●●●○○
Scala	●●○○○
Javascript	●●○○○
Haskell	●●○○○

TECHNICAL SKILLS

SQL/NoSQL | Git | Kubernetes | Docker | Context-Free Grammar | Linux | HTML/CSS | EC2 | Declarative Programming | DynamoDB | S3 | Node.js | Object-Oriented Design | Lambda | Functional Programming | L^at_ex

PROJECTS

Flip

Polyglot Database Solution

- Provides logic for creating, and including data-management modules
- Modules are applied to abstract data points, in a linear pipeline
- Modules provide common features from existinc database solutions [id schemes, field inclusion/exclusion, data types/sizes, inheritance]

Clojure | SQL | NoSQL | Database Solutions | Library Development

Motif

Recursive Pattern Matching

github.com/invocatis/motif

- Comprehensive, clean DSL for matching features of recursive, mixed data structures
- Patterns are data: Clojure collections and functions compose into patterns

Clojure | Pattern Matching | Library Development