




Luke Cook

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Education Background

Rochester Institute of Technology — Bachelor of Science in Computer Science

Technical Skills

<i>Fluent</i>	Clojure, Clojurescript, Java, SQL, NoSQL
<i>Proficient</i>	Kotlin, Matlab, $L^A T_E X$
<i>Novice</i>	Javascript, C, Scala, CSS/HTML

Work Experience

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| <div>[Software Engineer Co-op
Intuit Mountain View, California</div> <ul style="list-style-type: none">◦ Worked in scrum team, with daily standups, weekly meetings, and biweekly sprints◦ Developed for the account signup web service◦ Programmed in Java, using Springboot, SQL, REST, and Object Oriented Design <div>[Freelance Development
Swiftwater Brewing Co Rochester, New York</div> <ul style="list-style-type: none">◦ Created POS system for tracking and processing sales using Java, and MySQL◦ Developed user interface to emphasize quick and easy use◦ Managed credit card securities and fulfilled PCI-DSS requirements◦ Setup connection from POS to Elavon banking system for credit card processing | <p>January 2018 - July 2018</p> <p>January 2015 - Present</p> |
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Personal Projects

Flip: Polyglot Database

Modular, Polyglot database solution written in Clojure

- Modular software to separate, and contain many common features of other database solutions
- Modules can be organized to create Polyglot solutions, inheritance trees, and data entry guards
- Uses conversions of commands to create a concise pipeline for data handling

Motif: Pattern Matching for Clojure

Pattern matching based on Clojure's core data types

- Comprehensive, clean DSL for matching features of recursive, mixed data structures
- Precompiles patterns for optimized matching against many entries
- Interprets each Clojure collection logically differently, creating useful and interesting applications