





# 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, Haskell, CSS/HTML

## Work Experience

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

## 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