

# John Patterson

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Seattle, WA

## EXPERIENCE

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- Microsoft** April '18 – Present  
*Senior Software Engineer / Team Lead* Redmond, WA, USA
- Led team of 5 engineers. Held regular 1:1's, did project management, architected features, developed team agile practices, provided technical guidance through code reviews and pair programming, and liaised with partner teams and customers. Emphasized TDD, documentation, and peer demos.
  - Refactored C# build tool to leverage an incremental build system, shaving 44% off build times.
  - Improved caching, tripling system capacity (\$3m+ savings), and eliminating most common errors.
  - Developed an automation platform in C# which 1,700 engineers used to run 10m jobs per day.
- Qualtrics** June '17 – April '18  
*Software Engineer* Seattle, WA, USA
- Converted an organization of 30+ engineers to use TypeScript.  
(My article on this process: <https://www.qualtrics.com/eng/typescript-refactor>)
  - Automated code coverage reporting with TypeScript for 10 teams, saving 120 dev-days/yr.
  - Used JavaScript, TypeScript, and Python to write an Angular E2E framework serving 800 engineers.
  - Implemented CI/CD pipelines with Maven, Docker, Jenkins, and Rundeck.
- Acadian Ambulance** Jan. '16 – May '17  
*Software Engineer* Lafayette, LA, USA
- Used Clojure to create team debugging portal and automate its deployment of new instances.
  - Taught my team F#, then used it to create a 125-form medical billing application.
- Golfballs.com** May '14 – Dec '15  
*Software Engineer Intern* Lafayette, LA, USA
- Used VB.NET and MS-SQL to work on core business ASP.NET website backed by AWS.
- University of Louisiana at Lafayette** May '14 – July '14  
*Software Engineer Intern* Lafayette, LA, USA
- Developed software and coursework for teaching Python to students using robotics.

## RECENT PROJECTS

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### The Bartender's Manual (<http://bartendersmanual.com>)

Making building your own home cocktail bar easy and affordable. Made with my friends with plans to monetize through affiliate marketing. Built using TypeScript, React, and GraphQL.

### KLisp IDE (<https://github.com/john-patterson/KLispIDE>)

Toy Lisp implementation, language server, and IDE built in Kotlin. This was a solo project meant to teach myself Kotlin. Includes architecture and user documentation.

## EDUCATION

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- University of Louisiana at Lafayette May '12 – May '16  
*B.S. Computer Science* 3.94 / 4.00 GPA  
*B.S. Mathematics*
- Math Society President for 3 years
  - 2016's Outstanding Graduate for College of Sciences
  - Coursework: Operating Systems, Programming Languages, Databases, AI, Topology, Abstract Algebra

## SKILLS

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Ordered by frequency and recency of use:

*Professionally used:* C#, TypeScript, JavaScript, F#, Python, Clojure, Java, VS Code extension SDK, React