

# Rick Sheahan

SOFTWARE ENGINEER

Seattle, WA

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| 🍌 cucumber

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*An adaptable software engineer with professional experience in full-stack web development and data engineering, skilled in JS and with special interest in programming languages & compilers and functional programming - especially Haskell. iOS is up next!*

## Experience

### Microsoft, via Urgenci

Redmond, WA

FULL STACK DEVELOPER (CONTRACT)

October 2017 - December 2017

- Inherited a patchwork full-stack dev codebase and deployed bug hotfixes and developed new features
- My codebase powered small to global company hackathons that draw thousands of entrants
- Worked with the Angular/Hapi REST stack, MySQL, and, without notice, the Azure ecosystem.

### Azuqua, Enterprise Automation Startup

Seattle, WA

SOFTWARE ENGINEER, DATA ENGINEER

Mar 2017 - August 2017

- Worked on several full-stack and backend engineering microservices in JS with React & Node, using both HTTP and Sockets, and integrated them with all other in-house microservices
- Created a unit-testing framework - frontend in React, backend in Node and Express, and system modules in Node - for the proprietary compiled "connectors" used internally and by clients
- Worked as an ad-hoc data engineer, fixed bugs and added features to the core database layer with many components - Postgres, Redis, Cassandra, RabbitMQ, and others
- Provided feedback in design meetings on an in-house programming language as a compiler frontend expert

### University of Illinois, Urbana-Champaign

Urbana, Illinois

CS FRESHMAN HONORS CLASS (CS 196) COURSE STAFF

2016

- Gave lectures to a large class of 200 students on topics such as functional programming, graphics programming, and big O notation
- Ran a lab for Game Dev and taught about game development concepts and Python, Lua, and GLSL
- Guided students as the project manager through a semester long project, a cross-platform phone app that integrated with Spotify

### University of Illinois, Urbana-Champaign

Urbana, Illinois

PROGRAMMING STUDIO (CS 242) COURSE STAFF

2016

- Instructed students on best practices such as design patterns, refactoring, and version control
- Did code review and acted as project supervisor for student projects in Java, Ruby, and Python, and the LAMP and MEAN stacks

## Education

### University of Illinois, Urbana-Champaign

Urbana, Illinois

COURSEWORK FOR BS IN MATH & COMPUTER SCIENCE

Aug. 2013 - PRESENT

- Selected coursework: Programming Languages & Compilers, Systems Programming, Algorithms and Models of computation

### Parkland College

Champaign, IL

COMPUTER SCIENCE & ENGINEERING COURSEWORK

Aug. 2012 - June 2013

## Skills & Experience

### PROGRAMMING LANGUAGES

**Proficient:** JavaScript - Node & Browser, SQL, Python, HTML, CSS, Haskell

**Experienced:** C, C#, Swift, Ruby, C++, Regex, Bash

**Familiar:** Elm, Elixir, Erlang, Lisp, Crystal

### FRAMEWORKS & LIBRARIES

**Frameworks:** React, Redux, Express, MEAN, Mocha, RabbitMQ, iOS, Rails, Angular

**Libraries, etc:** D3, NumPy, SciPy, Chai, Socket.IO, Handlebars, Postgres, MySQL, Unity

**Tools:** Git, Github, SSH, Unix, macOS, Trello, Atom, VS Code, psql, DbVisualizer, Swagger

### AREAS OF INTEREST

Programming Languages & Compilers, Web Development, Software Engineering, Discrete Math, Data Engineering & Data Science, Mental Health Advocacy, Smarthomes & Automation