

# RYAN WATKINS - SOFTWARE ENGINEER (IC)

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## OVERVIEW / TECHNICAL SKILLS

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Individual contributor who has worked in an agency environment, self-starter who would prefer a deeply technical role. I also work on side-projects when time allows outside of working hours. Roughly 3 years of experience professionally.

**Languages:** Python(3 YOE), Clojure(1 YOE), Rust(1 YOE), C/C++ (1 YOE), SQL (Postgres) (1 YOE), Scala(1 YOE), Go(1 YOE), Common Lisp, Elisp, Node.js, Typescript, HTML/CSS

**Frameworks/ Libraries:** React(2 YOE), React Native, Redux, Flask(2YOE), VueJS(1YOE), Ring, Swagger

**Cloud:** AWS (2 YOE)

## EXPERIENCE

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**Backend Developer** - Peter Park Nov 2020 - Current

- Report directly to CTO (at least for a year+) to detail requirements and remove ambiguity in problem domain.
- First backend engineer hired, responsible for helping scale the team through clear coding patterns, setting an example through individual contributions. Witnessed the growth from small to small-mid size.
- Develop core pricing engine algorithm using data structure and algorithmic techniques.
- Build pricing UI that operations can then subsequently use to setup parking lots.
- Handle CI/CD for multiple microservices
- Use OOP principles and business logic to extend feature set and also simplify monolithic codebases.
- Handling kubernetes orchestration and maintaining/scaling production systems.
- Extend testing and produce high quality TDD code
- Helped sales sell product by implementing demo features, A/B testing and GDPR compliant replicas.
- Investigate complex concurrency issues regarding long-standing SQL queries such as deadlocks or data races.
- Performance improvements in key core facets of the codebase including task-oriented architecture
- Simplify and extend logging to track down bugs quicker
- Started "Tech Talks" within Peter-Park, with a talk on NixOS to begin.
- Integrate multiple third party services into the product

**Gap year(s)** - Travelling Nov 2018 - Nov 2020

**Full Stack Developer** - Red Ant Sep 2017 - Sep 2018

- Agency environment dealing with changing business requirements and switching projects frequently.
- Developed a full-stack mobile application using React Native and MongoDB that scaled to various countries.

**Junior Software Developer** - Sixt Aug 2016 - Feb 2017

**Frontend Internship** - Risklab (Allianz) Jul 2015 - Oct 2015

## EDUCATION

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**University of Reading** - BSc. Hons. Computer Science (First Class (UK) / 4.0 GPA) Sep 2013 - July 2016

## HOBBY PROJECTS / OPEN SOURCE CONTRIBUTIONS

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**Funtoo Package Maintenance** - [funtoo.org](http://funtoo.org) 2019

**Herrostats** - [herrostats.ryanwatkins.me](http://herrostats.ryanwatkins.me) 2020 – Present

**Quantum Interpreter** - <https://ryanwatkins.me/projects/sqint.html> 2020 – Present

## CERTIFICATIONS AND COURSES

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**Big Data Analysis with Scala and Spark** - <http://www.coursera.org/verify/SLMTXXYPM2BA> 2019

**Parallel programming** - <http://www.coursera.org/verify/Z4ZK4K5XWGNM> 2019

**Functional Program Design in Scala** - <http://www.coursera.org/verify/JNLUQFYCASLG> 2019

**Functional Programming Principles in Scala** - <http://www.coursera.org/verify/VMXTVUBGKLF5> 2019

**Algorithms, Part I** - <https://www.coursera.org/learn/algorithms-part1/home/welcome> 2021

## REFERENCES

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*Available on request*