

# Lexical Unit

Portland, OR

[resume@lexicalunit.com](mailto:resume@lexicalunit.com)

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## Experience

### Workplace

Senior Backend Engineer - Progressive Delivery

- Maintained GitLab's DevOps infrastructure while adding new features such as Feature Flags
- Created the solution and [a video demo](#) for Green-Blue deployments with GitLab CI

### Workplace

Lead Software Engineer - Studio Platform

- Built and maintained InVision Studio, a React & Electron app used by five million designers
- Led our six person Platform squad in initial design to delivery of third-party plugins
- Organized and mentored five separate squads in development of Studio Runtime

### Workplace

Senior Engineer - MyFitnessPal & MapMyRun

- Lead developer of Scala based microservice for a \$1M Samsung partnership
- Architected an iOS & Python *Find Fitness Classes* feature in partnership with Mindbody
- Used ML in Python to build [a patented classifier](#) for identifying different kinds of fitness classes
- Refactored existing ruby microservices to use a new real-time stream based notification system, driving 20 k push notifications and emails per minute
- Planned and implemented the migration of the MyFitnessPal steps tracking feature used by 225 M users from a Rails monolith to a Go microservice, reducing response times by 300%

### Workplace

Software Engineer II - Data & Products

- Instrumented iOS application with event tracking and built new Products centric UI feature
- Prototyped a "Buy Now" button using Stripe.js, a cross-device embeddable payment form
- Implemented a realtime high availability data pipeline using Kinesis and Storm
- Optimized Veg-o-Matic, a SQL based data slicing and reporting tool for A/B testing

### Workplace

Senior Software Developer - Data Sciences

- Leveraged sophisticated data mining techniques to solve big data analytics problems
- Collaborated with research and sales teams to produce client driven SaaS products

### Workplace

Engineering Scientist Associate

- Designed high frequency active sonar installed on 75% of US nuclear attack submarines
- Implemented a target tracking and feature classification system for mine avoidance

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## Experience Continued

### Workplace

Software Engineer

- Programmed interfaces to data acquisition modules for lab machines
- Designed a mobile desorption oven as well as porosity and core gamma systems

## Open Source

- [SpellBot](#): A Discord bot for [SpellTable](#): Remote magic made easy
- [nanodbc](#): A small C++ wrapper for ODBC, used by the [R programming language](#)
- [pancake-master](#): A dynamic webpage for [Master Pancake](#) showtimes
- [atom-notes](#): Embedded [notational velocity](#) for the Atom code editor
- [multi-wrap-guide](#): Multi-wrap guides for the Atom, [featured in an Atom blog post](#)
- [generator-studio-app](#): Scaffold generator for [InVision Studio](#) plugins
- [C++ dict](#): Proof-of-concept C++ dict class with Python-like features
- [dotfiles](#): My personalized machine configuration management system

## Education

### School

Bachelor of Science in Computer Science

- Minors in Linguistics and Mathematics
- Implemented a buddy-system memory manager and a multi-level feedback process scheduler
- Coded in assembly for MIPS processor and modeled a pipelined processor in Verilog

## Skills

- **Languages:** TypeScript/JS/ES6, Python, ruby, C/Obj-C/C++, Scala, Go, Zsh/Bash
- **Tools:** git, Docker, Node.js, Kubernetes, JIRA/Confluence, Jenkins, CMake
- **Services:** Amazon Web Services (AWS), Kibana, Librato, Kafka, Sentry, PagerDuty
- **Databases:** MySQL, PostgreSQL, MongoDB, Storm, Vertica/Greenplum, Druid.io
- **Libraries:** Flask, Ruby on Rails, AKKA, Finatra, Boost, fabric, SQLAlchemy
- **Practices:** Agile, SCRUM, Test Driven & Behavior Driven Development
- **Markup:** YAML, JSON, HTML/CSS/LESS/Sass, Markdown,  $\text{\LaTeX}$ , ERB
- **Operating Systems:** MacOS, Linux (RedHat and Debian based), Windows