

# Michael Rockhold

Seattle, WA | [m@rockhold.co](mailto:m@rockhold.co) | [github.com/rockhold-consulting](https://github.com/rockhold-consulting) | [linkedin.com/in/michaelrockhold](https://linkedin.com/in/michaelrockhold)

## Work Experience

---

### Developer/Owner

January 2024 — Present

Rockhold Consulting

Seattle, WA

- Independent developer of [ManyMaps](#), an iOS/macOS application for GIS professionals and hobbyists.

### Senior Software Engineer

September 2022 — August 2023

[Sinclair Broadcasting Group](#) (Video Services Engineering team)

Seattle, WA

- Designed, developed and deployed middleware to support streaming video services' customer sign-up and subscription service
- Designed and developed a system that automates the connection of live station newsfeeds to Facebook Live and other social media streaming services
- Designed, developed, and put into service a cloud-based search engine for KOMO TV's archive of daily run-down sheets going back decades
- Coded in primarily in Java, JavaScript, and Terraform to build and deploy web APIs using Spring Boot and other frameworks
- Debugged my APIs across service boundaries
- Collaborated with teams across the company, consulting with developers on other teams to share code, establish interfaces, distribute labor
- Wrote clear, concise, and testable code
- Provided valuable unit and integration tests
- Contributed meaningful feedback in peer code reviews
- Mentored junior developers
- Interviewed developer candidates for recruitment to our team or to others.

### Senior Software Engineer

September 2019 — September 2022

[Sinclair Broadcasting Group](#) (Innovation Lab)

Seattle, WA

- Proposed new projects
- Presented plans, progress, and results on a regular basis to Steering Committee, the C-suite audience that commissioned and evaluated our work
- Authored development and test plans
- Wrote clear, concise, and testable code
- Coded in primarily in Go, GraphQL, and Python, some Javascript with React and React Native
- Developed unit and integration tests for new code
- Used cloud tools like ElasticSearch, AWS Lambda, AWS CloudFormation, AWS S3, AWS SNS, etc.
- Wrote Terraform scripts to deploy to AWS via GitHub and GitLab CI/CD systems
- Used AWS Lambda, DynamoDB, CloudFormation, ECS, API Gateway, S3, Simple Notification Service, Route 53 to build micro services
- Developed custom middleware to support web and React Native clients for a prototype of a new Sinclair news property

### Senior Software Developer

July 2017 — April 2019

[Hestan Smart Cooking, Inc.](#)

Seattle, WA

- Maintained and extended a Bluetooth-based "device pairing" module that maintained a stable connection between the app and the various cooking appliances in the customer's kitchen
- Developed a sophisticated UI for capturing the user's preferred level of sear for different cuts and thicknesses of meat
- Carried out an extensive refactoring of the cooking workflow to employ the MVVM pattern to the sequence of activities the user undertakes while cooking a recipe.
- Reviewed code in ObjC, Swift, Java for iOS and Android apps and web services deployed on AWS
- Developed manual and automated test processes
- Interviewed and assessed candidates for recruitment

## Software Developer III

July 2012 — May 2017

[Nordstrom, Inc.](#)

Seattle, WA

- Co-designed, co-developed the Find Your Store features
- Developed experimental features dedicated to capturing the customer's best fit for a range of styles.
- Designed, coded a map-based Store Search feature to help draw customers into the stores
- Helped spearhead the transition of the whole Customer Mobile Application team to Test-Driven Development and full Pair Programming
- Developed prototype apps to explore potential product ideas
- Diagnosed and corrected bugs
- Performed code review (Objective-C, Swift, Java)
- Developed manual and automated test processes
- Lead development of a new style of candidate interview using pair programming and TDD
- Helped lead a major refactoring of the app to address some problems with the separation of business logic from presentation
- Interviewed and assessed candidates for recruitment

## Software Development Engineer

July 2011 — June 2012

[Ascentium, Inc.](#)

Kirkland, WA

- Ascentium (now called 'Smith') is a IT services and consulting company that employed me to develop iOS apps.

## Developer/Owner

February 2009 — September 2013

Rockhold Company, LLC

Seattle, WA

- Owner of a one-person software development business doing private development of applications for the Apple iPhone, iPod Touch, and iPad, as well as providing software development consulting services to customers developing similar products.
- Apps in the iOS App Store (since removed from the iTunes App Store as customer interest did not justify the effort of continued maintenance):
  - TransitScope, an iOS app for visually tracking the progress of King County Metro Transit buses along their routes through the Seattle area
  - Aktualala Loko, an app for communicating the user's present geographic location to their friends via social networking systems
  - RegEx Live!, a tool for exploring how to construct regular expressions

## Research SDE II

January 2007 — January 2009

[Microsoft Corporation](#) (.NET Micro Framework platform team)

Redmond, WA

- participated in the design and development of a portable implementation of the Microsoft Common Language Runtime for extremely resource-constrained embedded systems, and Windows-hosted tools for developing, debugging, and deploying software to them;
- implemented support for multibyte characters for string data in the runtime
- developed a Visual Studio plugin to support targeting .Net Micro Framework devices and emulators from the Visual Studio IDE

## SDE II

April 1996 — January 2007

[Microsoft Corporation](#) (Windows CE OS & Mobile Engineering Services)

Seattle, WA

- Produced a number of internal test tools and libraries
- Ported "Magellan" NT code coverage tools to CE OS for comprehensive collection of coverage data over time
- Developed the practices for CE OS automated and manual test labs to use for collecting coverage data in automated and ad-hoc testing
- Technologies used:
  - Microsoft C/C++
  - MSBUILD
  - Visual Studio
  - GNU C/C++
  - Python

## Developer

October 1994 — April 1996

[Attachmate Corporation](#)

Bellevue, WA

- Attachmate is a 1982-founded software company which focused on secure terminal emulation, legacy integration, and managed file transfer software.
- Developed FTP client for Extra!, an integrated mainframe connectivity tool for Mac OS (classic).
- Developed automated build system for another similar product
- Maintenance programming (C/C++) for several products
- Technologies used:
  - Object Pascal
  - C/C++
  - Mac OS System 7
  - Linux

### QA Lead

1991 — 1994

[Symantec Corporation](#) (THINK Technologies)

Bedford, MA

- Symantec was the corporate parent of [THINK Technologies](#), maker of Lightspeed Pascal, THINK C, and other programming tools.
- Developed and carried out test plans for THINK C++, THINK Pascal, and the THINK Class Library (TCL)
- Led a small team of 1 to 3 direct reports
- Maintained Think Class Library in C++ and Object Pascal.
- Adapted Apple's MacApp C++ application framework to use THINK C++ runtime and accept THINK C++ idiosyncrasies

### MUMPS Developer

1988 — 1991

[InterSystems Corporation](#)

Cambridge, MA

- InterSystems Corporation is a privately held vendor of software systems and technology for high-performance database management, rapid application development, integration, and healthcare information systems.
- Assisted customers in developing and debugging MUMPS programs, and in administration of MUMPS database systems
- Performed maintenance and feature work in the InterSystems MUMPS standard library.
- Technologies used:
  - C/C++, MUMPS
  - vi
  - UNIX
  - X Window System.

### Developer

1987 — 1988

VERTEK, Inc.

Bellevue, WA

- VERTEK was the developer of OASYS, a tool used by occupational professionals to perform transferable skills analysis for people seeking to build a new career path.
- Fixed bugs in the OASYS product
- Developed internal tools
- **Technologies used:**
  - C/C++
  - MS-DOS
  - Unix
  - SCO Xenix
  - C-Tree
  - RS-232 communications

## Education

**University of Washington, Allen School of Computer Science and Engineering**

Seattle, Washington

Master of Science, Computer Science

January 2019

**McGill University**

Montréal, Québec

Bachelor of Arts, Linguistics (Computer Science minor)

January 1986

## Projects

, ManyMaps ([github.com/rockhold-consulting/MicroGIS](https://github.com/rockhold-consulting/MicroGIS))

Nov 2023 — Present

- macOS and iOS application for displaying and editing imported geojson and KML files
- Developed in SwiftUI for macOS 13+ and iOS 16+
- Makes extensive use of Core Data and MapKit

, TransitScope ([github.com/michaelrockhold/TransitScope](https://github.com/michaelrockhold/TransitScope)) 2012

- iOS app for displaying current bus schedules and real-time bus location information for the King County Metro transit network.
- Stopped working in 2016 when the UW ITS API was retired.

, Aktualala Loko ([github.com/michaelrockhold/Aktuala-Loko](https://github.com/michaelrockhold/Aktuala-Loko)) 2010

- An iOS app for communicating the user's present geographic location to their friends via social networking systems.
- Uses MapBox static maps API to create an image depicting the user's present location, suitable for pasting into Messages, Twitter, or Facebook.

, RegEx Live! ([github.com/michaelrockhold/regex-live](https://github.com/michaelrockhold/regex-live)) 2010

- An iOS app, a tool for exploring how to construct regular expressions and interactively seeing the results of applying the expressions to some user-supplied sample texts.

## Extracurricular Activities

---

### National Junior Classical League Volunteering

- Chaperone and invigilate at WA/BC regional conventions of the National Junior Classical League

## Skills, Awards, etc.

---

- **Programming Languages:** Swift, Python, Objective-C, Java, Bash, Typst
- **Technologies:** macOS, iOS, SwiftUI, UIKit, Core Data, Core Location, MapKit, REST APIs, GraphQL, Git, ffmpeg, AWS Lambda, DynamoDB, MQTT, AWS Simple Notification Service, GitLab CI/CD
- **Strengths:** Presentation skills, Written communication, Mentorship, Cross-team/cross-discipline collaboration, Software Design, Object-Oriented Design, Test-driven development (TDD)
- **Interests:** Foreign languages, Programming languages, urbanism, historical maps and cartograms
- National Merit Scholarship Finalist
- American Legion School Award (Foreign Languages)

## Languages

---

- English (Native)
- Spanish (B1)
- French (B1)
- German (A2)