

# Michael Rockhold

- Seattle, Washington
- m@rockhold.co
- +1 206 240-6636
- <https://www.linkedin.com/in/michaelrockhold> (LinkedIn profile)
- <https://mastodon.green/@mrckhld> (Mastodon)

Iâ€™m a software developer with a wide range of experience and interests. I have a high degree of skill and experience in native mobile application development as well as in the design and development of backend microservices suitable for supporting those mobile apps. I am motivated by opportunities to learn new things and to share those learnings with colleagues and collaborators.

- <https://github.com/rockhold-consulting> (coding for money)
- <https://github.com/michaelrockhold> (coding for fun)

## Projects

- MicroGIS (<https://github.com/rockhold-consulting/MicroGIS>)
- TransitScope (very old) <https://github.com/rockhold-consulting/TransitScope>
- Aktualala Loko, an app for communicating the userâ€™s present geographic location to their friends via social networking systems
- RegEx Live!, a tool for exploring how to construct regular expressions

## Education

- McGill University, Montreal. B.Arts. 1986 - Linguistics major, Computer Science minor
- University of Washington, Seattle. M.Sc., 2019 - Computer Science

## Skills

Experienced in every stage of the design and implementation of sophisticated software systems:

- Requirements gathering
- Sprint planning
- Design and code reviewing: reviews included other engineers and were held to ensure a high level of software quality and to share knowledge with team members
- Planning, creating, and executing automated test cases and UI automation
- Participating in customer support activities
- Adept in software engineering practices using such tools and methodologies as
  - Agile Software Development
  - Test Driven Development
  - Continuous Integration / Continuous Deployment
  - Source Code Management via git and GitHub/GitLab/BitBucket
  - Swift, Objective-C, Go, Python, Java, JavaScript, Terraform, and others
- A history of supporting the technical skills growth of other team members through empathetic mentoring, code review, and brown-bag presentations;
- A strong independent contributor, I am highly motivated, enthusiastic, and able to work under minimal guidance. I am also a great team member, with excellent skills in communication across teams and across disciplines via email, Slack, etc. Even face-to-face!
- Recruiter, involved in candidate assessment, interviewing, and leveling

## ðŸ’» Engineering Experience

### Rockhold Consulting (Seattle, Washington); 01/2024 - Present

Developer/Owner

- Independent developer of MicroGIS, an iOS/macOS application for GIS professionals. I expect to have version 1 available in the App Store in early October. (See <https://github.com/rockhold-consulting/MicroGIS>)

### [Sinclair Broadcast Group](#) (Seattle, Washington); 09/2022 - 07/2023

Senior Software Engineer (Member of Video Service Engineering team)

- Designed, developed and deployed middleware to support streaming video servicesâ€™ 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 TVâ€™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.

### [Sinclair Broadcast Group](#) (Seattle, Washington); 09/2019 - 09/2022

Senior Software Engineer (Member of Innovation Lab)

- Proposed 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

### [Hestan Smart Cooking, Inc.](#) (Seattle, Washington); 07/2017 - 04/2019

Senior Software Developer

During my time working on the Hestan Cue app, I had several areas of particular responsibility:

- a Bluetooth-based â€œdevice pairingâ€œ module that maintained a stable connection between the app and the various cooking appliances in the customerâ€™s kitchen
- a sophisticated UI for capturing the userâ€™s preferred level of sear for different cuts and thicknesses of meat
- an extensive refactoring of the cooking workflow to employ the MVVM pattern to the sequence of activities the user undertakes while cooking a recipe.

Also:

- 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

### [Nordstrom, Inc.](#) (Seattle, Washington); 07/2012 - 05/2017

Software Developer III

Two of my particular areas of interest were the Find Your Store component and some features dedicated to capturing the customerâ€™s best fit for a range of styles.

Also:

- 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

### [Ascentium, Inc.](#) (Kirkland, WA); July 2011 - June 2012

Software Development Engineer

Ascentium (now called â€˜Smithâ€™) is a IT services and consulting company that employed me to develop iOS apps.

### Rockhold Company, LLC (Seattle, WA); February 2009 - September 2013

Developer/Owner

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 userâ€™s present geographic location to their friends via social networking systems
- RegEx Live!, a tool for exploring how to construct regular expressions

### [Microsoft Corporation](#) (Redmond, WA); April 1996 - January 2009

Research Software Design Engineer II (.NET Micro Framework platform team)

- 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

Software Design Engineer II (Windows CE OS & Mobile Engineering Services)

- Produced a number of internal test tools and libraries
- Ported â€œMagellanâ€œ 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.

### [Attachmate Corporation](#) (Bellevue, WA); October 1994 - April 1996

Developer

Attachmate Corporation 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.

### [Symantec Corporation](#) (Bedford, MA); 1991 - 1994

QA Lead

Symantec Corporation was the corporate parent of THINK Technologies, maker of Lightspeed Pascal, THINK C, and other programming tools.

- Developed and carried out test plans THINK C++, THINK Pascal, and the THINK Class Library (TCL)
- lead a small team of 1 to 3 direct reports
- Maintained Think Class Library in C++ and Object Pascal.
- Adapted Appleâ€™s MacApp C++ application framework to use THINK C++ runtime and accept THINK C++ idiosyncrasies

### [InterSystems, Inc.](#) (Cambridge, MA); 1988 - 1991

MUMPS Developer

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, sunview, X Window System.

### VERTEK, Inc. (Bellevue, WA); 1987 - 1988

Developer

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.

- Junior programming staff working on the OASYS product and on internal tools
- **Technologies used:** C/C++, MS-DOS, Unix, SCO Xenix, C-Tree, RS-232 communications.

## Miscellaneous Skills

- Presentation skills
- Written Communication
- Mentoring
- Collaboration
- Software Design
- Object-Oriented Design
- Python
- Objective-C
- Swift
- macOS
- iOS
- SwiftUI
- UIKit
- Core Data
- Core Location
- MapKit
- AVKit
- REST APIs
- GraphQL
- Git
- ffmpeg
- AWS Lambda
- DynamoDB
- AWS Simple Notification Service
- AWS Elemental Media Services
- GitLab CI/CD

## Languages

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