

Rob [Brackett] is deeply drawn to the places humans and computers meet, working to design, plan, and build better user and developer interfaces and documentation. **He hopes to build software that truly connects with and helps people.**

[Recent Work History]

Brackett Development / San Francisco, CA
Owner, 2014-Present

- Consulted with small startups and large firms, focusing on UI, technical documentation, and developer tooling.
- Helped clients develop, release, and contribute to open source projects.
- Assisted clients in creating continuous integration testing workflows including unit and integration tests and tooling.

Editorially, Inc. / Brooklyn, NY
Engineer, 2012-2014

- Built complete JavaScript implementation for collaborative text-editing web app.
- Created unique web-based text editor to show more expressive syntax previews than existing editors (e.g. CodeMirror, ACE).
- Contributed to back-end API design, development for document versioning and commenting systems.

Apple, Inc. / Cupertino, CA
JS Frameworks Engineer, 2010–2011

- Worked with a team to build and launch versions 1.0 through 2.0 of iAd Producer.
- Contributed to internal JavaScript Frameworks for building extremely rich web content (focusing on smooth, native-feeling animation and data binding).
- Built new internal tools for interfacing with JavaScriptCore via Objective-C/Cocoa.
- Assisted third-party devs working on ads and ran workshops across the country.

Environmental Data & Governance Initiative
Lead Software Developer, 2017-Present

- Built and maintained open-source tools for monitoring changes to tens of thousands of government websites.
- Managed and reviewed development work of volunteer and open source contributors.
- Maintained technical partnerships with other organizations, including the Internet Archive.
- Developed novel algorithms for diffing (comparing & identifying changes in) HTML.

Code for America / San Francisco, CA
Fellow, 2012

- Worked with the Chicago government and its vendors to build public access API for submitting and reporting on city services.
- Organized “Chicago IdeaHack” to join up programmers & community organizers.
- Worked with the Chicago government to promote use of open-source tools developed by citizen developers in the city (both internally and publicly).

Involution Studios / Sunnyvale, CA
Lead Engineer, 2007–2009

- Developed prototypes of desktop and web-based software envisioned by design teams.
- Educated client engineering teams on new software architectures, development patterns, tools, and methodologies.
- Directed a team in developing a general purpose UI framework for a leading a computer security company.
- Developed WYSIWYG web page editor.



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[Selected Open Source Work]

- **EDGI Web Monitoring Tools:** I am the lead maintainers for a suite of tools used to track changes in government websites. Some tools developed for this project are now used by the Internet Archive.
github.com/edgi-govdata-archiving/web-monitoring
 - **Wayback:** A Python package to search for and load archived web pages from the Internet Archive Wayback Machine.
github.com/edgi-govdata-archiving/wayback
 - **YAML Doctor:** A library & CLI tool that identifies YAML syntax errors in helpful human terms and automatically fixes them, with a focus on predicting the YAML author's intent.
github.com/Mr0grog/yaml-doctor
 - **EditorConfig-TextMate:** A plugin for the TextMate text editor that adds support for .editorconfig files.
github.com/Mr0grog/editorconfig-textmate
 - **Google Docs to Markdown:** Web-based tool to convert a Google Doc to Markdown.
github.com/Mr0grog/google-docs-to-markdown
 - **Snap-It-Up:** Monitoring database/dashboard that tracks the uptime and availability of state SNAP (food assistance) programs.
github.com/codeforamerica/snap-it-up
 - **SRTracker:** The City of Chicago's former official open source web site for tracking fulfillment of 311 service requests.
github.com/codeforamerica/srtracker
 - **Newless:** A JS library enabling constructors to be called without the `new` keyword.
github.com/Mr0grog/newless
 - **p12-to-pem:** Extract the private key from a PKCS12 (.p12) file.
github.com/imgix/p12ToPem
 - **Nodetiles:** Render rasterized map images or tiles from any source of vector map data and styling information.
<https://github.com/nodetiles>
 - **SparkXML:** JS library for parsing XML according to the "Spark" convention.
<https://github.com/codeforamerica/node-sparkxml>
- Github:** <https://github.com/Mr0grog>
NPM: <https://www.npmjs.com/~mr0grog>
PyPI: <https://pypi.org/user/Mr0grog/>

[Skills, Tools]

JavaScript/TypeScript (Browser & Node.js), Python, Ruby, Objective-C, Go, PHP, HTML, CSS. Familiar with a wide variety of frameworks of tools, including Rails, Django, Flask, Tornado, React, Vue, etc.

Versed in technical writing & communication, open source practices & licensing.

[Education &c.]

BS in **New Media Information Technology** with a minor in **Japanese Language**
Rochester Institute of Technology, Graduated November 2005; **3.92** GPA
Dean's List 2002–2005, RIT Outstanding Undergraduate Scholar



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