**STEVEN IRBY**

(503) 997-0415 • email@stevenirby.me • <https://github.com/stevenirby> • linkedin.com/in/stevenirby1

**SENIOR SOFTWARE ENGINEER / Co-Founder**

Software Architect • Senior Software Engineer • Platform Architect •

UX and Usability Expert • Automation Specialist • Unit Testing Advocate

**Technologies**: JavaScript / TypeScript, React, Next.js, Node.js, Bun.js, Cypress, GraphQL/Apollo, RxJs, Angular, HTML/(S)CSS, Tailwind/Bootstrap, Python, Django, BASH, Webpack, Go Hugo, Responsive Emails (MJML), Git/Mercurial, Linux/Unix, SQL (MySQL/PostgreSQL), Docker

**Projects**: Random Daily Art (.AI), Co-Founder Upp Bio, Slidermetrix

**WORK EXPERIENCE**

**Random Daily Email, Remote / London, UK**

***Owner*, Operator**  **Sept** **2023 – Present**

* Built and launched the Random Daily Art application, onboarded 100+ artists worldwide using Next.js, React, Tailwind CSS, Prisma ORM, MySQL, Redis, automation using n8n, and bun.js.
* Distributed contemporary and classical art over 30,000 times via the app and newsletter.
* Celebrated the milestone of sending the 2,500,000th email/art piece.
* Launched an AI-generated art version of the newsletter with a dedicated site using Tailwind, Go Hugo, Alpine.js, and MJML.

**Canvas Medical, Remote**

***Senior Software Engineer / Team Lead*** **Mar 2021 – Sept 2023**

* Overhauled poorly performing React / Redux code, reducing 99th percentile UI latency by 40%.
* Developed an industry-leading appointment scheduling tool from scratch using React, Google Calendar integration, and Apollo GraphQL.
* Enhanced patient communication capabilities for specific regions.
* Extensively used Django for feature development, bug fixes, and debugging.
* Acted as team lead and the primary point of contact for a key customer, achieving high project success and customer satisfaction.

 **Upp Bio, Remote**

***Co-founder / Co-CEO*** ~**2021**

* Completed a six-month federally funded tech incubator program (FedTech) to commercialize groundbreaking technologies from national labs.
* Won the entire cohort to get extra $1,000 in funding for services.
* Led the winning team in the iGem competition.
* Built the MVP web app for bio-manufacturing chemicals, using Django, Celery, React; deployed on AWS with Docker.
* Won several pitch deck competitions and conducted 100+ customer discovery calls.

 **Sabbatical** **2019 – 2021**

* Achieved a personal goal of visiting all seven continents during a world trip.
* Launched Random Daily Art using Go Hugo, Webpack, and React, growing the mailing list to several thousand subscribers.

**Eagle Cap Software, Remote Dec 2017 – Dec 2018**

**Senior Software Engineer**

* Developed a comprehensive Angular 4+ application for a leading US airline, covering fleet, routes, and crew management.
* Collaborated closely with stakeholders to design a new web application, significantly enhancing operational efficiency.
* Leveraged RxJs extensively to improve application code efficiency and user experience by adding windowing and other techniques.
* Achieved 80% test coverage, demonstrating a commitment to quality and reliability.
* Optimized unit testing speed by 4x by transitioning the test runner to Jest.js.

**The Creative Few Agency, Portland, OR / Remote Feb 2015 – Dec 2017**

**Senior Software Engineer**

* Spearheaded the development of a new Angular 4+ application for a large telecommunications company, enhancing the customer experience for millions of users.
* Integrated with legacy telecommunications APIs, ensuring seamless new phone service activation.
* Directed the rewrite of the front-end codebase to align with new RESTful API designs, increasing the scalability and efficiency of services.
* Initiated and led the effort to introduce unit and E2E testing coverage, significantly reducing bugs and improving code quality.
* Mentored junior developers, providing guidance on debugging and code reviews, and promoted best practices in front-end development.

**Vendscreen, Portland, OR Oct 2014 – Jan 2015**

**Senior Software Engineer**

* Architected a responsive single-page web application using Angular 1, enhancing user engagement and operational efficiency.
* Led a team including product designers and subcontractors, ensuring project milestones were met on schedule.
* Developed backend Node.js code, including an authentication service, improving security and user management.
* Coordinated with the backend API team to design efficient, scalable API endpoints.

**Actions without Borders (Idealist.org), Portland, OR Mar 2013 – Jun 2014**

***Software Engineer***

* Collaborated with stakeholders to enhance website functionality, directly contributing to user satisfaction and engagement.
* Implemented backend features using Python and SQLAlchemy, and front-end features using Backbone.js, Marionette.js, and Require.js.
* Pioneered the use of server-side rendering to improve page load times and overall site performance.
* Ensured high code quality by writing extensive unit tests for both front-end and back-end code.

**Nike Inc., Beaverton, OR Nov 2012 – Mar 2013**

***Senior Frontend Developer***

* Led updates to the company website, utilizing HTML/CSS and JavaScript to improve user experience and site performance.
* Introduced JavaScript unit testing and coding standards, raising the quality and maintainability of code.
* Implemented HTML and markup enhancements using Java template engines, streamlining content updates and management.

**Decipher Inc., Portland, OR Apr 2007 – Nov 2012**

***Software Engineer* Jan 2010 – Nov 2012**

* Developed a web application for live video perception analysis integrating HTML5 video technologies, YouTube, knockout.js, charting library, and cross-domain communication.
* Authored Python backend code for video data collection, user and project management, and reporting tools, enhancing data analysis capabilities.
* Rewrote change management system that was used by all staff and all clients for testing and editing surveys.
* Implemented a built-in to-do task management system, improving project tracking and management.
* Created and maintained the web intercept system which embedded a widget onto customers websites to prompt user to take surveys.
* Worked on large survey creation tool using proprietary event driven JavaScript framework.
* Responsible for implementing features in the survey creation tool writing Python, JavaScript, HTML, and CSS.
* Achieved at least 90% unit test coverage in both Python and JavaScript.
* Managed several high impact projects with other developers, designers, and client advocates.

***Survey Programmer* Apr 2007 – Dec 2009**

* Automated repetitive tasks, reducing a 1-hour workload to 10 minutes through advanced BASH scripting.
* Programmed and designed online surveys, incorporating custom python logic and styling, enhancing participant engagement and data accuracy.
* Developed custom multilingual email campaigns for millions of clients' customers, improving outreach and response rates.
* Conducted peer reviews and trained colleagues on Unix, Shell scripting, and Vim, fostering a culture of continuous learning and improvement.

**EDUCATION**

**Greenpeace Organizing Term, Washington, DC 2008**

Environmental Activist Training Program

**Fresno City College, Fresno, CA**

**International Relations**