

ROB CARTER

Remote Worker | (425) 301-1400 | robbie.carter@gmail.com | [Github Profile](#)

Creative software engineer with 10+ years of experience building web, mobile, and game applications.
Passionate about projects that merge technology with storytelling and education.

EDUCATION: Bachelor of Science in Physics | Theoretical Physics Emphasis | University of Oregon 2011
LANGUAGES: Javascript | Typescript | C# | Ruby | SQL | HTML | CSS
TECH SKILLS: Relational DBs | NodeJS | React Native, | REST | OOP | Design Patterns | SCRUM | GIT | Physics & Math | Game Design | UX Design | Unity | Pixi | Phaser
SOFT SKILLS: Curiosity | Persistence | Empathy | Kind & Collaborative Nature | a Drive to Build User-Centered Software

Game Engineer 2021 – 2025
PBS Kids Games | pbskids.org/games Remote

- Developed current [PBS Kids Games App](#) – serves ~3 million users/month & won [several Webby awards](#).
- Developed new redesigned Kids Games App with React Native (unreleased)
- Maintained proprietary PBS game dev technology - [SpringRoll](#), for HTML5 games
- Reviewed game code from PBS's development partners

CoFounder 2017 – 2021
SecondFloor Media Remote

- Created suite of marketing websites in Ruby on Rails which generated 30k+ organic users monthly
- Created Iron Condor, a simulated trading platform for stocks, options, and cryptocurrency (now retired)
- CoFounded and managed a small business through failures & successes

Software Engineer 2015 – 2017
Sunrun | sunrun.com Remote

- Created CI/CD and testing pipeline for 50+ marketing websites
- Increased page load speed by up to 400% by optimizing site structure, boosting sales
- Developed business analysis reports in SQL used by company leadership

Software Engineer 2014 – 2015
CoStar Group | landandfarm.com San Luis Obispo, CA

- Created dynamic photo gallery for redesign which produced a 15% increase in site traffic
- Implemented a new dedicated search database to increase search speed across millions of records
- Developed landandfarm.com's widely-used "Geo Search" feature

Web Systems Engineer 2011 – 2013
Etna Interactive | etnainteractive.com San Luis Obispo, CA

- Installed and customized CMS product for clients
- Managed project deployment process, codified the rules for new website deployment and testing
- Developed the "base install kit" used throughout the company to create new bespoke websites

Research Intern Four Summers, 2007 – 2010
NASA Ames Research Center | nasa.gov/ames/ Mountain View, CA

- Wrote "false positive detection" code to analyze data collected from the [Kepler Satellite](#)
- Conducted original research in meteor physics which yielded [two publications](#):
 1. 40th Lunar and Planetary Science Conference: [Estimating the Drag Coefficients of Meteorites for all Mach Number Regimes](#) (2009)
 2. Meteoroids: The Smallest Solar System Bodies: [Constraining the Drag Coefficients of Meteors in Dark Flight](#) (2011)