

# Rick Vermeil

Software Engineer

Erie, CO | (610) 202-1418 | [rickv85@gmail.com](mailto:rickv85@gmail.com) | [Portfolio](#) | [GitHub](#) | [LinkedIn](#)

Software engineer with experience building React and TypeScript applications with a strong focus on usability, reliability, and developer experience. Background in product ownership and cross-functional collaboration, with experience delivering search, analysis, and workflow features for highly complex web applications. Passionate about creating intuitive user experiences and maintaining high-quality, testable code.

## SKILLS

**Languages & Frameworks:** React, TypeScript, JavaScript, Next.js, Node.js, HTML, CSS, Redux, Python, Django

**Databases & APIs:** Databases & APIs: REST APIs, SQL, PostgreSQL, MySQL

**Testing:** Cypress, Jest, Mocha | **Additional Tools:** Jenkins, Figma

**Development Practices:** CI/CD, AI-Assisted Development Workflows

## PROFESSIONAL EXPERIENCE

**Software Engineer** - percipient.ai, Santa Clara, CA - April 2024 to present - [GitHub Contributions](#)

- Developed user-facing capabilities for a large-scale production React/TypeScript computer vision platform supporting image- and video-based analysis workflows across search, results exploration, and platform reliability.
- Owned frontend delivery of a new search-by-example capability, building the experience from image upload through results visualization and error handling, enabling analysts to locate visually similar imagery without relying solely on manual text descriptions which improved the speed and accuracy of searches.
- Led enhancements to core search workflows by introducing similarity filtering, time-based sorting, and URL-persisted search state, allowing analysts to share complete investigations with a single link, recover search context after reloads or session expiration, and collaborate more efficiently.
- Expanded analysis capabilities within search results by implementing result grouping, drill-down navigation, pagination, and advanced date/time filtering, enabling analysts to investigate searches containing hundreds to thousands of results without repeatedly reconstructing searches or losing investigation context.
- Improved release confidence and developer velocity by authoring integration tests, reducing flaky end-to-end test failures by over 40%, adding custom lint rules for automated testing, and decreasing deployment-blocking CI failures.
- Modernized foundational analysis components within a core platform module using TypeScript best practices, improving type safety, reducing maintenance overhead, and accelerating development of new search features.
- Enhanced user experience through pre-search planning and validation workflows that prevent invalid search parameters, immediately surfaced incompatible data sources and date ranges, and eliminated searches that would return no results.

**Freelance Software Engineer** - Vermeil Web Solutions LLC, Erie, CO

- Collaborated directly with clients to define requirements and deliver web solutions that aligned with business goals, budgets, and project deadlines.

**Product Owner & Content Marketing Manager** - Bestop Inc., Louisville, CO - July 2020 to August 2022

- Served as Product Owner for a multi-brand e-commerce platform initiative, partnering with developers and stakeholders to prioritize requirements and deliver new website capabilities.
- Increased development productivity by introducing Agile methodologies while reducing the overall expenditure by over 30%.
- Managed and created all e-commerce website content for the brand across WordPress and BigCommerce platforms.

## PERSONAL PROJECTS

[SendTemps](#) | [Repo](#) | 12/2023 - Present

Architected a full-stack Next.js 14 app with PostgreSQL, Google OAuth, and Google Maps API, delivering precise NOAA weather forecasts for Colorado backcountry locations, including user-created custom sites.

[Ride Ready](#) | [FE Repo](#) | [BE Repo](#) | 3/2023 - Present

Built a tool with React, Node.js, Express, and MySQL that tracks mountain bike suspension service intervals using Strava ride history and manufacturer guidelines.

## EDUCATION

Front-End Software Engineering - Turing School of Software and Design, Denver, CO

Apr 2023

Bachelor's of Science, Business / Marketing - West Chester Univ. of PA, West Chester, PA

May 2010