# **Ethan B Martin**

## **Objective**

Technical lead or web architect supporting teams driven by innovation and collaboration

## **Recent Employment**

**Advisor Innovation Labs - Bryn Mawr, PA**  
Software Engineer, February 2019 - October 2019

Wrote application code using: TypeScript, React, Spring Boot, Querydsl, SCSS, MySQL, Node, Capacitor, Okta, Ramda, Cypress, Spock, Docker, AWS S3, and Casium.

Operated in a Kanban and *Extreme Ownership* environment.

Simplified OAuth architecture to enable publishing an iOS app.  
Advised developers on how to write more understandable code.

Performed patent research: prior art discovery and proof-of-concept experimentation in Elm.

**Penn Mutual - Horsham, PA**  
Technical Lead, 2017 - 2019

Tightened the quality-assurance and development feedback loop through automated deployments.

Introduced code reviews, testing-driven development, functional programming, auto-formatting and linting.

Configured automatic verification of our flagship web application via Jenkins.

Hosted technology learning sessions: [Granny's Alimentari](https://github.com/Pilatch/grannys-alimentari) and [Language Buffet](https://github.com/Pilatch/language-buffet/blob/master/language-buffet.pptx)

Created web developer interview process.

Mentored and on-boarded web developers.

Contributed to Angular, AngularJS, Express/Mongo, React/Redux, and Groovy/Spring Boot applications.

Quickly built proof-of-concepts in Elm.

Diagnosed and solved problems on multiple teams.

Improved developer productivity and reliability of functional tests via Express API mocking.

Removed the necessity of long-lived branches in source control by implementing feature flags.

Demonstrated how web components could support our visual style guide across different web applications.

Mediated another team's disagreement about unit test strategy.

Called attention to a low-affordance feature that benefited from usability testing.

Pair-programmed and swarmed tricky functionality.

Maintained a process improvements backlog in an agile environment.  
Directed technology choices.

Built Android and iOS mobile applications using Cordova.

**Comcast Interactive Media - Philadelphia, PA**  
Web Technology Consultant, 2016 - 2017

Addressed accessibility liabilities before public launch of the xFi project.

Defended egalitarian scrum culture from bottlenecks.

Provided architectural guidance focused on productivity.

Identified and facilitated solutions for technical debt.

Improved feature development collaboration process.

Reviewed the majority of production code prioritizing a priori understandability.

Wrote web application code using Polymer.

Codified style guide and review process.

Guided developers in coding practices, organization, and code clarity.

Solved and documented complex OAuth-related mobile device testing setup.

Increased and enforced high unit test coverage.

Improved Nightwatch integration tests.

**eBay Enterprise - King of Prussia, PA**  
Architect 1, 2014 - 2016  
Web Developer 3, 2010 - 2014

Performed usability testing using Tobii Studio.

Guided web-store remediation for *Americans with Disabilities Act* compliance.

Provided iterative mobile-first responsive design solution.

Reviewed code.

Optimized developers' workflows.

Oversaw drafting of user interface coding standards:

Sought input and consensus among lead web developers.

Tailored the [JavaScript style guide](https://github.com/Pilatch/front-end-style-guides) to our organization's needs.

Configured technical debt analysis, reinforcing style guides.

Demonstrated how web developers could write unit tests for our legacy platform.

Transitioned developers from an antiquated compression system.

Critiqued and invited criticism at the Architecture Review Board.

Presented a crash course in object-oriented JavaScript to the other architects.

Identified security liabilities inherent in our technology and culture.

Reviewed client communications to improve technical accuracy.

Interviewed, trained, and assisted junior developers.

Presented approaches for mitigating cross-site scripting vulnerabilities.

Presented iterative usability testing approach.

Presented best practices for front-end performance.

Presented compiler tools process.

Evangelized front-end performance tools.

Led site-wide performance improvement projects.

Led a multi-client checkout flow performance improvement project.

Led implementation of Inline Error Messaging project.

Led implementation of In-Store Pickup products.

Led implementation of credit card issuer identifying number system upgrades.

Encouraged cross-organizational teamwork.

Identified revenue opportunity of multi-tenant checkout performance improvements.

Performed iterative usability testing.

Deployed an internal static asset compression web service.

Delivered a minimal-footprint, cross-platform, extensible product for In Store Pickup.

Delivered a checkout improvement project to over sixty clients.

Surveyed end-users before creating internal tools.

Recognized the need for performance testing in the development cycle.

Researched competing technologies.

Disentangled JSP and jQuery logic and presentation.

**MetLife - Bridgewater, NJ**  
Web Developer, 2009 - 2010

Designed pages and solved problems for the Extreme Make Over project.

Performed usability testing.

Wrote an internal JavaScript library using Dōjō to assist page design which enabled rapid generation of visual style-guide compliant mockups.

**New Horizons - Iselin, NJ**  
Senior Applications Instructor, 2007 - 2009

Taught adults advanced applications, and beginner programming courses.  
Wrote Excel macros in VBA.  
Evaluated exceptionally for clarity of instruction and sense of humor ʕ•ᴥ•ʔ

## **Awards**

* *Critical Talent*
* *Excellence Delivered*
* *Spot*
* Instructor of the Month
* ETS/Praxis *Recognition of Excellence* in English Language, Literature, and Composition
* Regional Math League Champion

## **Sole Author of Patent Filings**

* [eBay Budget](http://appft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&p=1&u=%252Fnetahtml%252FPTO%252Fsearch-bool.html&r=1&f=G&l=50&co1=AND&d=PG01&s1=20160292773&OS=20160292773&RS=20160292773)
* [Static Asset References](http://appft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&p=1&u=%252Fnetahtml%252FPTO%252Fsearch-bool.html&r=1&f=G&l=50&co1=AND&d=PG01&s1=20160335312&OS=20160335312&RS=20160335312)

## **Example Projects**

### [Pilatch Card Games](http://pilatch.com/)

* [Directed creation of physical product art](https://99designs.com/other-design-tasks/contests/suit-poker-tm-card-deck-package-free-advertising-45992)
* [Created module for static asset management and performance](https://www.drupal.org/sandbox/beefzilla/2108701)
* Formulated trigonometric animations for [the product page's](http://pilatch.com/cards) card arc
* Developed JavaScript [demonstrations](https://pilatch.com/games/casual/Runway) library

### [Easy Element](https://www.npmjs.com/package/easy-element)

* Intended to be the easiest way to build V1-spec compliant web components
* Helps in sharing low-level components between different web technologies

### [mPulse API Wide Data Range Analyzer](https://github.com/Pilatch/mPulse-client)

* Accelerated production performance analysis
* Sidestepped a limitation of the SOSTA mPulse web client by leveraging its API
* Obviated Data Science Work Bench licensing costs

### [Poker-like game probability generator](https://github.com/Pilatch-Card-Games/game-sim)

* [Informed game design decisions](http://pilatch.com/blog/Ethan/Rags-n-Riches)
* Solved a mathematically unsustainable problem

## **Education**

### **Keller Graduate School of Management, New York City**

#### **4.0 GPA, 2009**

* Managerial Applications of Information Technology
* Strategic Management of Technology

### **Rutgers University, New Brunswick, New Jersey**

#### **Bachelor of Arts, 2006**