

## Philip Cadigan

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### Summary

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Experienced software developer (15+ years) who appreciates understanding problems and crafting applications to address them.

### Technical Skills

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JavaScript   TypeScript   HTML5   Python   Java   SQL/NoSQL   CI/CD   Linux/UNIX   git   docker   AWS

### Work Experience

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#### Principal Software Engineer

CodaMetrix

May 2019 - Present

Tech lead for front-end application development and team lead for a smart, capable cross-functional scrum team.

#### Technical

- Construct user interfaces in React (Typescript) and CSS3 (Sass).
- Provide tooling (webpack, Jenkins, etc.) and support systems (test harnesses, storybooks, etc.) for applications throughout the software development lifecycle.
- Build back-end APIs in Java (Spring Boot) microservices.

#### Process

- Serve as scrum master. Coordinate and host agile ceremonies.
- Support a team-first mentality; fostering an environment of collaboration, openness, critical thinking, and support.
- Ensure stories and acceptance criteria are substantial enough to support product development in areas of significant ambiguity.
- Primary technical contact for co-development with external organizations. This involves: developing requirements with shared responsibilities; identifying roadblocks in complex, multi-layered integrations; reporting out to stakeholders; timely communication.
- Work closely with product and support teams (Professional Services and Customer Success) on product launches and iterative releases.

#### Design

- Run usability and user research sessions with specialized professionals (e.g. medical coders) to understand and improve existing processes.
- With research and product management teams, design applications that take advantage of machine-learning.
- Coordinate with external designers.

#### Lead Member of the Technical Staff

athenahealth

May 2017 - May 2019

Software engineer focused on delivering stable, auto-updated html5-based desktop applications.

- Tech Lead for a desktop application using the cross-platform [electron framework](#).
- Develop user interfaces in React, Polymer, and CSS3.
- Lead development of a JavaScript API for third party extensions, much of it closely following [Chrome Extension API](#). Provide tooling and documentation to aid external parties develop for our platform.
- Create microservices in AWS using Node.js, docker containers, and AWS APIs.
- Implemented cross-platform CI/CD pipelines for both Windows applications and UNIX-based docker microservices.
- Maintain high coverage thresholds for unit, integration, and end-to-end tests.
- Actively lead discussions in technical planning and agile ceremonies.

## Engineering Interface Manager

lifeIMAGE

June 2014 - April 2017

Player/coach for the UI team.

- Lead a team of front end experts crafting responsive, performant [React](#)-based applications.
- Prioritize and improve [build tooling](#) in a [continuous integration environment](#).
- Champion efforts to improve software quality; including [sprint management](#), [unit testing](#), and [code analysis](#).
- Work closely with testers, build engineers, and developers to implement an automated testing platform based on [Selenium](#) running on [AWS](#) and [Saucelabs](#).
- Design and develop [REST APIs](#) that serve multiple client platforms (HTML/JS, .NET, iOS).
- Serve in customer facing roles in partnerships with outside organizations. Meet with vendors and partners regularly to insure project track and deliverables are making the grade.
- Regularly meet with direct reports (1:1s) to identify upcoming challenges and address on-going work.
- Provide context and metrics on key performance indicators to executives and teams.
- Participate in engineering management team activities; including: release and strategic planning, identifying areas requiring improvement, and product demonstrations.
- Contribute to the hiring process for all levels of the organization, from entry level employees to C-suite.

## Software Engineer, UI

lifeIMAGE

April 2009 - May 2014

UI lead for multiple web-applications that aid the secure sharing of medical imaging.

- Design, build, and service single page web-apps using progressive methodologies ([AMD](#), [Dependency Injection](#), [Promises](#), Comet, etc.) while still supporting legacy browsers.
- Work closely with Product Management and Quality Assurance to produce a final product that meets or exceeds users needs.
- Implement stringent security requirements that enable the proper sharing of medical data.
- Analyze performance metrics across multiple browser platforms; identifying areas for optimization and refactoring.
- Integrate web-apps with native frameworks (.NET and Cocoa) and plugins (Java and Flash) to extend the capabilities of our applications as needed.
- Create and maintain build processes (Ant and Maven) to produce [optimized JavaScript](#) and Flash artifacts.
- Develop in-house tools that aid software engineering in the areas of performance and automation.
- Develop UI test-harnesses to aid a rapid "code and test" cycle.
- Perform the duties of scrum master, rescue stuck/blocked colleagues, and ensure the timely delivery of software.
- Interview candidates for technical and cultural fits within the organization.
- Bring up to speed junior and senior candidates on concepts and frameworks used in the UI.
- Investigate and implement unit testing frameworks to exercise client code.

## Software Engineer

Lycos Inc.

## July 2007 to February 2009

Member of an agile web-development team tasked with creating new products utilizing emerging technologies. Participated in multiple phases of the software life cycle, including: brainstorming, requirements gathering, prototyping, development, usability, marketing, and usage analysis.

- Designed and wrote extensive back-end and front-end code for Lycos Cinema, a web application that allows users to synchronously watch videos and chat from within their browser. Worked closely with product management and design team to identify and fix usability issues.
- Successfully led programming team in a complete refactor of an internal RESTful web-service. This project consisted of overhauling tens of thousands of lines of back-end code, made heavy use of automated testing, and provided a clear and consistent interface for consumers of the data.
- Implemented scalable AJAX front-end for Lycos MIX, a site that allows users to build video playlists.
- Refactored existing web-scraping scripts for Lycos MIX into an easily extensible API, allowing new video providers to be dropped into place with zero configuration.
- Designed and implemented memcached-based caching system for Lycos Cinema, providing service and statistical monitoring, and transparent invalidation mechanisms.
- Interviewed and mentored graduate students in the Lycos Internship Program.
- Participated in training emphasizing: communication, team building, conflict resolution, and innovation.
- Performed front-end performance audits for Lycos properties.
- Lead developer for a complete overhaul of Sparkcast, a peer-to-peer video broadcasting service. Sparkcast utilized a unique infrastructure designed to service both desktop and web-based clients. Portions of the service were written in C, Java, and PHP.
- Architected testing framework for Lycos Cinema emphasizing: unit, integration, and automated browser testing.
- Led weekly engineering meeting. This meeting was the main forum for: redressing recurring technical issues, formulating standards for code quality, and evaluating new technologies.
- Received the runner-up prize in the Lycos Innovation Challenge for 'Bubblr' a collaborative RSS aggregator.

## Co-Founder and Lead Developer

PbType LLC

April 2005 to May 2007.

Co-created a web-consultancy and development company specializing in standards compliant web development. As co-founder I was intimately involved in all aspects of the business from strategic thinking to procuring office supplies.

- Led programming on all major projects. Managed programming life cycle, including but not limited to: design, prototyping, development, testing, and implementation.
- Managed and developed client relationships, including: needs assessment, project estimation, updates, acceptance testing, and post-delivery wrap-up.
- Created and coordinated marketing efforts for the company including: press releases, blog, printed materials, and take-aways.
- Coordinated legal negotiations for company including incorporation, intellectual property arrangements, and contracts.
- Designed, planned, and implemented rPapers. rPapers was a Django-based web 2.0 service offering tools to help people share their research.
- Implemented version control system (Subversion) and bug tracking database (Trac) to keep code-base manageable across multiple developers and environments.
- Researched and maintained knowledge of relevant emerging technologies.
- Provided clients with advice and code to enhance search engine rankings.
- Implemented ratified standards and APIs to increase data portability and interoperability.

## Journals Internet Marketing Manager

The MIT Press

April 2001 to April 2005

- Co-managed a high traffic web-catalog receiving 130,000 unique visits per month.
- Led a complete rewrite and redesign of the web-catalog, coordinating a team of freelance designers, programmers, and in-house committees.
- Created and implemented ongoing development projects (e.g., e-mail lists, stats, discounts) to enhance and ensure the quality and currency of our web-catalog.
- Oversaw web-production schedule for 35 journals; including timely and accurate publication of new content, posting sample articles, verifying properly editorial information, and pricing.
- Fostered reader involvement through increased access, e-mail alerts, sample articles, and letters-to-the-editor module.
- Deployed strategies for e-journals. Coordinated with in-house design team, editors, programmers, and customer service on conceptual development, infrastructure, and policy.
- Served as primary contact with electronic publishing vendors, ensured operational efficiency and increased relevancy of services.
- Implemented with IT: hardware upgrades, disaster recovery, and security and network policies.
- Member of the Management Board Task Force for Digital Strategies.
- Recipient of the MIT Press 2001 Award for Efficiency and Cost Savings.

## Journals Promotion Coordinator

The MIT Press

August 1999 to April 2001

Oversaw from start to finish the design, planning, and execution of direct mail campaigns for over 30 journals. Designed advertisements, brochures, and inserts for journals and direct mail promotions.

## Membership Coordinator

WBUR 90.9 FM

February 1999 to August 1999

Created database and maintained financial records for over 40,000 donors, assisted volunteers, furnished customer service, copywrote promotional pieces.

## Education

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### Bachelor of Arts: Philosophy/History

1993-2000

University of Massachusetts at Amherst

### Graduate Courses in Computer Science

2007-2011

Harvard University: Extension School.

A collection of courses (Data Structures, Discrete Math, Calculus, AI, etc.) mostly belonging to a Computer Science Master's curriculum.