**Renjith Kathalikkattil Ravindran,**A person in a suit and tie

Description automatically generated

**Senior Software Engineer**

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**IEEE# 100797135**

**SPECIALTIES**

Experienced front-end technology leader with over **17 years** of expertise in building, scaling, and optimizing user interfaces for complex systems at **Google, Target**, and early-stage startups. Known for delivering production-grade code with pixel-perfect precision, performance optimization, and accessibility compliance. Holds **Google JavaScript Code Review Certification** and has contributed to mission-critical internal tools and consumer products like **Google Stadia**, **Google My Business**, and **GreenTea**.

Specializes in:

* **Front-End Architecture** for enterprise-scale systems using Angular, React, and Wiz
* **JavaScript Engineering**, with expertise in ES5/ES6, TypeScript, and Google JS Style Guide
* **Google Internal Frameworks**: Boq, Boq-Web, Wiz Framework, and Soy templates
* **Design Systems & UI/UX**: Building reusable component libraries with Material Design
* **Web Accessibility & Usability**: Enforcing WCAG compliance and performance best practices
* **Cross-Browser and Mobile-First Development**: Optimizing for Chrome, Safari, and legacy platforms
* **Agile Execution & Mentorship**: Leading frontend teams, code reviews, and UI standardization
* **API Integration & Automation**: RESTful APIs, testing automation, and cloud deployment
* **Performance Optimization**: Page load time tuning, debugging, and code linting
* **CMS Platforms**: TeamSite, Drupal, WordPress customization and integration

Education

| **2007** | **B.Tech in Computer Science & Engineering 05/2003 - 06/2007**  University of Calicut, Kerala, India |
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Experience

#### Castlight Health Inc. - Senior Software Engineer

**San Francisco, CA | May 2020 – present**

* Part of core product development team and leading the personalized recommendations module

#### Google (via HCL America) — *System Architect*

**Mountain View, CA | July 2014 – April 2020**

* Architected and led development of several internal Google platforms, including **Stadia**, **Carbon**, and **ReachUX Pulse**.
* Created reusable design systems using Angular, React, and Wiz framework.
* Authored core modules and conducted code reviews under Google’s readability and JS standards.
* Significant contributions to ChromeCast (Dart), Maps API, and Material Design adoption.
* Tools: Wiz, Boq-Web, Soy Templates, Dart, Node.js, Python.

#### Target (via Sapient Consulting Pvt Ltd) — *Senior Interactive Developer L1*

**Bangalore, India | Nov 2010 – Jun 2014**

* Led the **target.com** frontend checkout and gift registry modules.
* Promoted rapid UI iteration with jQuery and modern UX practices.
* Delivered W3C-compliant codebase ensuring high usability and accessibility.

#### Ahsan Consulting Pvt Ltd — *UI Developer*

**Chennai, India | Jun 2009 – Sep 2010**

* Developed social networking clones like YouTube and Facebook using PHP and JavaScript.

#### VirtualMaze Pvt Ltd — *Web Developer*

**Chennai, India | Jun 2008 – May 2009**

* Delivered full-stack web solutions including backend and DB schema design.

#### ProconIT Solutions — *Web Developer*

**Chennai, India | Jun 2007 – May 2008**

* Independently delivered complete client-facing websites with full deployment cycles.

Key Projects

#### Google Stadia – Chromecast UI Development *(2019–2020)*

Developed Dart-based UI components for Stadia on Chromecast using the Wiz framework. Delivered seamless 4K game streaming interface with cross-device compatibility and reduced input latency.

#### Google My Business – Feature Development & Automation *(2018–2019)*

Built the “Follow” feature integrated with Google Maps API. Automated UI testing using Mobily framework (Python). Improved user engagement metrics and testing coverage.

#### Carbon – Google Design System *(2019–2021)*

Core contributor to Carbon, Google’s internal design system used across product teams. Developed Angular 8+ reusable UI components and documented usage patterns to standardize UX across applications.

#### GreenTea (El Manage & Core Fitness) *(2016–2018)*

Designed campaign management dashboards and reporting interfaces to track KPIs across Ads accounts. Enabled over 7,500 active KPIs per quarter, widely adopted by LCS and Adwords teams.

#### Slate V2 – Report Automation Platform *(2015–2017)*

Led frontend development of a generic platform to host internal reporting tools. Automated legacy manual processes and saved ~20 FTE hours quarterly.

#### QPlus – Workflow Quality Management *(2016)*

Developed web and Chrome extension tools for reviewing global ad workflows. Helped enforce quality metrics and streamlined performance evaluation across gTech Ads.

#### Target.com – Checkout & GAM Modules *(2010–2014)*

Led frontend development for core e-commerce flows. Enhanced UI performance, ensured cross-browser compatibility, and improved accessibility compliance.

#### Agriya Products – Social Media and Multimedia Platforms *(2009–2010)*

Built and customized Facebook, YouTube, and Groupon clones. Delivered responsive UI with backend integration for consumer-scale products.

#### Appointment Scheduling *(2025)*

Implemented a server-driven solution for booking health appointments through real-time EMR integration. Enhanced scheduling UX, added Google Maps filtering, and reduced call center volume.

#### Patient Chart *(2021–2022)*

Built a full-stack patient chart module with real-time data from AthenaOne EHR. Engineered secure, responsive views for vitals, labs, and encounters using Java, Spring Boot, and OAuth 2.0.

#### Modular Migration *(2020–2021)*

Refactored a monolithic Angular app into micro frontends with independent CI/CD pipelines, enabling faster, autonomous deployments.

#### Reward Center *(2019–2021)*

Developed a rewards interface for Castlight Health, integrating Tango Card APIs and wearable data. Contributed to $100M+ redemptions and doubled user engagement.

#### Challenges *(2020–2022)*

Built gamified activity tracking with team competitions, achieving:

* 2x app usage
* 7% increase in benefits program registrations
* 75% participant retention weekly
* 1,480 avg. additional steps per user/day

**All codebases followed rigorous code review processes and enterprise-grade standards.**

Author Profiles

IEEE Author - <https://ieeexplore.ieee.org/author/742613591848955>

ORCID - <https://orcid.org/0009-0005-5256-9965>

ResearchGate - <https://www.researchgate.net/profile/Renjith-Ravindran-2>

GoogleScholar: <https://scholar.google.com/citations?hl=en&user=_FTuFE0AAAAJ>

Awards

* **Most Valuable Player**, HCL – March 2017
* **Innovation Award**, HCL – Jan 2016
* **Best Team Player**, Google – July 2015
* **Core Value Awards**, Sapient – Leadership (May 2013), Creativity (Jul 2011)
* **Great Work Awards**, Sapient – Delivery (Aug 2012), Rookie Nominee (Jun 2012)

Publications (5)

1. [**A grounded theory approach to blockchain smart contracts in cybersecurity and its adoption**](https://link.springer.com/article/10.1365/s43439-025-00147-3)**, Springer Fachmedien Wiesbaden , 2024**
2. [**Understanding the Role of Explainable AI in Threat Detection**](https://ieeexplore.ieee.org/document/11021147)**, IEEE, 2024**
3. [**Federated Learning in Multi-Institutional EHR Systems**](https://ieeexplore.ieee.org/document/11021190)**, IEEE, 2024**
4. [**Developer’s Guide to Mastering Accessibility in Web Development**](https://dzone.com/articles/dev-guide-to-mastering-accessibility-in-web-development)**, DZone, 2024**
5. [**Semantic Web Design for Secure Front-End Architectures**](https://www.ijsr.net/getabstract.php?paperid=SR25620022855)**, IJSR, 2024**