

Joseph Pedicini

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Work Experience

Amazon

Frontend Engineer II

April 2022 – present

Columbus, OH / remote

- Currently the lead frontend engineer for a high visibility health-tech project which will appear on the Amazon homepage
- Researched and documented multiple technology choices, ultimately choosing one that aligned most with aggressive project timeline
- *Main Technologies Used:* React, various internal tools/frameworks

battleface

Senior Software Engineer

September 2021 – April 2022

Columbus, OH / remote

- Lead frontend developer and senior Angular expert
- Responsible for mentoring engineering org around frontend development practices, including concepts such as reactive programming, functional programming, unit testing, and scalable programming principles
- Designed a plan to move from a monolithic frontend to a micro frontend architecture using Module Federation API
- Created the initial project, and trained the engineering team to begin migrating to the new architecture.
- *Main Technologies Used:* Angular 12, Nx, Storybook, MySQL, AWS, Kubernetes

Cota Healthcare

Senior Software Engineer

February 2019 – September 2021

Remote employee

- Successfully led an effort to redesign and rewrite complex abstraction tool from Ember to Angular
- Designed and architected a new functionality in the application that allows users to easily compare and grade large, complex data sets which was previously being done with excel sheets
- Continuously iterate on complex data entry forms and logic to allow for more rapid and accurate data entry by our users
- Regularly work directly with internal users to implement new features and improvements
- Regularly work with backend developers to design REST APIs
- Identified and implemented performance improvements related to displaying huge amounts of data on screen from a large number of individual API requests
- Implemented an E2E test suite for our frontend application and integrated it into the code review process
- Mocked our scala API in node so we could quickly work on the frontend while waiting for changes on our actual backend and also work offline when needed.
- *Main Technologies Used:* Angular (8+), Scala, Elixir, Node.js, Postgres, GCP (CDN, Storage, functions, stackdriver), Kubernetes, Auth0

Cota Healthcare

Frontend Developer

November 2017 – February 2019

Remote employee

- Built an internal data abstraction application from initial design phase all the way through release and into providing production support and building out new features
- Implemented thorough unit and end to end tests for key data entry components
- Took over as lead developer for an external data visualization application, delivering a successful release to our client while also maintaining work as the only frontend developer on our internal abstraction tool
- Identified and Implemented fixes for the following performance issues that were experienced:
 - Profiled a slow Scala API and identified and implemented a fix which brought request times down from over a minute to a few seconds.
 - Slow SPA page load due to multiple concurrent API requests for json schemas, implemented service workers to cache these requests on the client
 - Application was pulling in third party assets multiple times and causing intermittent failures loading the page. Refactored the code using Angular resolvers to load the assets only once and block the page from loading until all assets are available.
 - Slow resource loads for users in India, identified the problem as frequent cache misses on our CloudFront CDN and was able to reconfigure our caching strategy to resolve the problem.

- Upgraded our OAuth strategy to meet a deadline from Auth0 to move off a version which had a security vulnerability. This involved changing the client-side codebases for multiple apps, changing our scala API, upgrading our Auth0 apps to be OIDC conformant, and helping to implement a redis-cache to avoid going over new Auth0 API rate limits.
- Mentored one of our junior devs to take over a node app that I wrote to parse csv dumps from various clients and ingest them into our database.
- *Main Technologies Used:* Ember.js, Node.js, Scala, Postgres, Elasticsearch, AWS (S3, SQS, EC2), Auth0

Cota Healthcare
QA Engineer

October 2016 – November 2017
New York, NY

JPMorgan Chase & Co.
Applications Developer

August 2014 – October 2016
Columbus, OH / Jersey City, NJ

- Worked on a small, co-located agile team as a full-stack developer, involved in the entire software development lifecycle for three applications from design phase through production support, with over 200,000 internal users.
- Helped lead the charge for our team to adopt TDD as well as BDD and redefined our QA process, moving away from manual testing toward automated testing.
- Volunteered to lead and present a pitch to senior management for why we should build an upcoming project in-house as opposed to buying from a vendor.
- Played the scrum master role for one of our applications; managing the JIRA board, running scrum calls, and working with the business analyst on managing user stories.
- Fixed and refactored broken and unmaintainable UI acceptance tests to make it easier for the team to meet the goal of having UI tests for every story.
- *Main Technologies Used:* AngularJS, Swift, C#.NET, Java, MSSQL, Cucumber, Selenium

Volunteer Experience

Africa Bridge

September 2014 – present

I set up a mobile solution for data collectors in villages in Tanzania to enter data on mobile devices and upload data to a Google App Engine server using the open source library ODK and provide additional technical support.

Dublin HS

September 2018 – June 2019

I help mentor students in a weekly computer science club.

TEALS

June 2016 – June 2017

I taught high school introduction to computer science class twice/week using Skype, responsible for lesson planning, lecturing, and grading.

Education

The Ohio State University, Columbus Ohio
Bachelor of Science in Computer and Information Science

Graduated – May 2014
G.P.A. – 3.290

Links

- <https://www.linkedin.com/in/joseph-pedicini-a3343924/>
- <https://github.com/joeypedicini92>