



Harsh Patel

harsh.patel991@gmail.com | Chicago, IL

Hello! My name is Harsh, I am a software engineer with 8+ years of experience. I focus on building scalable, reliable, and maintainable applications. I have worked on systems with millions of users. (Some of which you've likely interacted with!) I mentor other engineers, advocate for automated testing, and always work to raise the bar.

EXPERIENCE

Engineering Team Lead

Rocket Auto (Rocket Family of Companies), February 2022 - Current

- Managed a team of 5 software engineers in development and delivery of varying features in **React** (Typescript) & **GraphQL Node.js API** applications.
- Worked with leaders and stakeholders across the organization to define scope, communicate timelines, and ensure alignment with business objectives.
- Built team **culture** of quality code, monitoring, testing, ownership, and innovation. Collaborated with team to create **key metrics** and **goals** to support culture.
- Individually coached team members through achieving goals, earning promotions, and managing change.

Engineering Team Lead

Neighborhoods.com, August 2021 - February 2022

- Managed a team of 5 software engineers in developing features for lead submission **microservices** and **Salesforce** application.
- Created and peer-reviewed architecture proposals to ensure new features were **fault tolerant** and **scalable** and met business requirements.

Software Engineer

Neighborhoods.com, August 2018 - August 2021

- Architected and implemented **microservices** in modern **object-oriented PHP** using **Postgres DB** running on **AWS** and **Kubernetes**. Services spanned multiple business sectors such as email/push notification sending, automated Google Ads purchasing, and **highly available APIs** for user-facing website content.
- Worked directly with Apple engineers to **ETL** neighborhoods and community data to be displayed on **Apple Maps**.
- Owned a company-wide monitoring migration from **NewRelic** to **Datadog** with a strict deadline. Included building an **open source** library for all of our backend engineers to use, a migration guide, **presentations** to the engineering team, and keeping all teams within timeline.
- Pioneered and evangelized **automated testing** strategy for the engineering organization. Created a testing library and defined a pattern for running tests in **CI** for 10+ **microservices** used by 4 internal development teams.

Senior Software Engineer

Bazaarvoice, November 2017 - August 2018

- Increased email engagement rate on average 10% by developing a feature allowing clients to select the time of day to send emails.

- Led the development of a **React** application for clients to configure product-wide settings.
- Migrated live application backend from Python Flask to **Java Spring** and integrated with a new client portal authentication.
- Collaborated in building a new **Java Dropwizard microservice** to respond to the team's GDPR data reporting and data clean-up requests.

Software Engineer II

Bazaarvoice, May 2016 - November 2017

- Reduced email sending costs 10x and significantly reduced delays in testing by migrating a live **Java** microservice application sending 1.5 million API requests/day from **Salesforce Marketing Cloud** to **Amazon SES**.
- Led development of a client-facing email metrics dashboard tracking email sends, deliveries, bounces, complaints, opens, link clicks, unsubscribes, and subsequent conversions.
- Reduced peak CPU load 10-35% by identifying and implementing fixes for performance issues in the team's **MongoDB** clusters.
- Reduced the number of troubleshooting questions asked by support teams by developing an **Angular** application using internal APIs.
- Collaborated in integrating a **functional test framework** in **Java Dropwizard** applications. Shaved hours off deployment preparation by replacing flaky and long-running integration tests with quick functional tests.

Software Engineer I

Bazaarvoice, May 2015 - May 2016

- Ensured client PII data was not stored in plaintext by implementing a feature for clients to send **RSA encrypted email addresses** in XML feeds.
- Worked closely with the QA team to refactor the team's **Java integration test** suite.

EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Science | Graduated May 2015 with Honors

PERSONAL PROJECTS

Roast My Game - <http://roastmygame.com>

- I developed this **PHP Laravel** site after having trouble receiving feedback for games that I had created. Game developers can sign up, add their game, and give and get feedback.
- 1000 users have signed up, 400 games have been posted, and 1500 roasts have been made.
- Hosted on **AWS EC2 with Elastic Beanstalk**, SSL Certificate with Lets Encrypt and certbot.

News Tab

- I developed a **Javascript Chrome extension** for the new tab page after I was unable to find an existing one that was quick and light-weight. Displays RSS, weather, and user's most visited sites.
- **2x faster** than Chrome's default new tab page by forcing local cache of external resources, combining local resources, using CSS-driven animations.

SKILLS

- Java
- Javascript
- PHP
- Microservice architecture
- Distributed architecture
- Engineering mentoring