

Harsh Patel

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EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Science

Graduated May 2015

GPA: 3.60/4.00

PROFESSIONAL EXPERIENCE

National Instruments

Software Engineer Intern

Summer 2013

- Collaborated with a group of software engineers to develop shape drawing feature for virtual instrumentation software. Written in C# using Windows Presentation Foundation.

Bazaarvoice

Software Engineer Intern

Summer 2014

- Added real-time metrics and alerting to a legacy monolithic Java Spring application. Metrics tracked various email types that the company sends to users along their lifecycle: queuing, scheduling, sending, and failures.
- Worked alongside a team of software engineers to develop features in new Dropwizard micro-service application for email templating and sending.

Software Engineer I

May 2015 – May 2016

- Worked closely with QA team to refactor the team's integration test suite by splitting long-running tests into parallelized pieces, consolidating duplicated code, and removing obsolete tests.
- Implemented feature allow clients to send RSA encrypted email addresses in XML feeds, ensuring client's PII is not stored in plaintext on disk.

Software Engineer II

May 2016 – November 2017

- Working with Product Management and developers from other teams, I led development of a client-facing email metrics dashboard. Tracks email sends, deliveries, bounces, complaints, opens, link clicks, unsubscribes, and subsequent conversions.
- Integrated new email sending application with Amazon SES, allowing the company to save 10x on email sending costs and significantly reducing the delays in integration testing.
- Uncovered and fixed performance issues in the team's MongoDB cluster allowing us to continue using cheaper servers
- Developed an Angular application to aid internal teams in debugging and modifying data through internal APIs
- Aided in integrating a functional test framework for all of the team's applications. Then, helped with converting flaky integration tests to functional tests.

Senior Software Engineer

November 2017 – Current

- Led development of feature allowing clients to select time of day to send emails.
- Moved to a different team and led development of a React & Redux 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.
- Aided in building new service to respond to GDPR data reporting and data clean up requests.

Please see <https://harshpatel991.github.io> for projects and skills.