PRACHI SHAH

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EDUCATION

Master of Science, Computer Science   2013 – 2015
Indiana University, Bloomington, USA

Bachelor of Engineering, Information Technology   2007 – 2010
University of Mumbai, India

Diploma, Computer Engineering   2004 – 2007
Maharashtra State Board of Technical Education, Mumbai, India

PROFESSIONAL EXPERIENCE

Metromile, Inc., San Francisco, CA, USA

Senior Software Engineer - Backend   11/20/2019 – Present

- Designing, developing and integrating **Java micro-services** and **REST APIs** for Metromile's insurance quote estimation product.

Harvest Savings & Wealth Technologies (formerly **Trizic, Inc.**), Larkspur, CA, USA   08/28/2018 – 10/18/2019

Senior Software Engineer

- Engineered **Java micro-services** and developed **APIs** which enabled financial institutions with customer account management.
- **Architected**, developed and delivered a financial portfolio management application using **Java**, **Spring Boot** and **MySQL**.
- Architected **data integration with external APIs** to fetch stock quote data and delivered it to a stock trading application.
- **Led** a **team** of three software engineers and performed hand-on **mentoring** of the team members.
- Mapped business requirements into **JIRA** tasks, performed **sprint planning** and delivered **top business priorities**.
- Performed code reviews on **GitHub**, created Swagger API documentation, wrote technical design documentation on Confluence.

FIS Management Services LLC., San Francisco, CA, USA

Senior Software Engineer / Engineering Lead   07/01/2017 – 08/24/2018

- Managed **Java micro-services**-based feature-rich dashboard web application which enabled 2000+ financial institutions to comprehensively customize their iOS and Android banking and financial apps.
- Implemented and **improved back-end** which enhanced application security and performance, created RESTful API endpoints, and **enhanced front-end** to consume RESTful APIs. Performed code reviews and wrote technical documentation.
- Architected the **solution design** by collaborating with product owner, stakeholders and the UX team. Followed **Test Driven Development** practices, wrote JUnit and Mockito unit and API tests, conducted regression and smoke testing.

Software Engineer II / Engineering Lead   07/13/2015 – 06/30/2017

- **Led end-to-end and delivered 3 projects** which enabled 1000+ banks to generate custom styles and assets for their iOS, Android and Tablet banking apps. Architected and developed applications, fixed security vulnerabilities and created solid tests.
- **Mentored four** software engineers, **trained** testing teams and offshore teams on technical and domain knowledge.
- Performed production, staging and QA **systems' deployments**. Maintained Jenkins CI build pipelines for **continuous integration/continuous delivery** using **Artifactory**, **Maven** and Bash scripts. Created an optimized build automation process.
- Followed **Agile** software development methodology, **JIRA** application lifecycle and **Crucible code review** process.

Indiana University, Bloomington, IN, USA   05/12/2014 – 05/08/2015

Systems Analyst/ Application Programmer

- **Designed, developed,** and **tested** university procurement department's website using **LAMP**, JavaScript, HTML, **JUnit**.
- Optimized **SQL scripts** and improved **Oracle database** maintenance, and created **solution design documents**.

Bank of America, Mumbai, MH, India   10/25/2010 – 08/12/2012

Sr. Technical Associate

- Engineered web application for centralized access of customer investment portfolio profiles, using **ASP.NET MVC**, **C#**, **REST APIs**, **Sybase**, **jQuery**, **AJAX**, **LINQ**, **ADO.NET** and **WCF**, created **UML** diagrams and solution design document.
- Secured JavaScript, ASP/**PHP**/**HTML**/**CSS** and ASP.NET applications, fixed security **vulnerabilities** using **Fortify SCA** tool.
- Migrated ASP **monolith web applicatio**n using ASP.NET, LINQ, HTML and Sybase, improved performance and user experience.

- Performed Fortify static application security testing on web applications, optimized **XML testing report** generation time by 70%.
- Utilized Model-view-controller (**MVC**) development standard, and followed the **Agile** Software Development Lifecycle (**SDLC**).
- Certified with The Ken Blanchard Companies' '**Situational Leadership II**'.
- Received several Bank of America Global **Recognition** awards for **performance**, **teamwork** and **leadership**.

Tata Consultancy Services, Mumbai, MH, India   09/11/2009 – 04/30/2010

Software Engineering Intern

- Developed global human resources management web application in Java, **J2EE** and Oracle, implemented the business logic in **PL/SQL**, developed the user interface in **JavaServer Faces**, and wrote JUnit unit tests.

PROJECTS

Indiana University, Bloomington, IN, USA   08/11/2013 – 05/08/2015

Web programming and database development

- Developed a university employee management web application and database schema using WAMP, jQuery, HTML and CSS.
- Created, modeled and queried RDF database, displayed subject-object-predicate results in ARQ SPARQL processor in Jena, Java.
- Serialized JSON wine facts' data into RDF format, displayed them on website, using MIT Simile's Exhibit, JavaScript and Bootstrap.

Mobile computing

- Developed an Android application that tracked a bike (any object) and provided real-time location updates, using Java.
- Detected Android applications prone to Secure Socket Layer protocol vulnerabilities, in Java and mitmproxy (Man-in-the-middle).

High performance computing

- Developed word count and PageRank Algorithm programs for Hadoop and Pig, using MapReduce and Java.
- Implemented round robin message passing algorithm on a Linux cluster using OpenMPI and C.

Computer networks

- Implemented a TCP/IP port scanner which identified open/closed ports using different scanning techniques, in C++.
- Developed a 1-seeder 1-leecher BitTorrent client for secure file transfer, in C.
- Implemented a form of netcat command for secure TCP socket communication between two clients, in C.

Hardware engineering

- Programmed Phidget 1018 Analog sensor, created a Morse code encoder that converted pressure inputs into text messages, in Java.

TECHNICAL SKILLS

Programming and Web:	Java, Spring, Spring Boot, REST API, JavaScript, AngularJS, Node.js, Bash scripting, MVC
Database, VCS and IDE:	Oracle, MySQL, H2, Git, Subversion, Bitbucket, IntelliJ IDEA, Spring Tool Suite, Sublime Text, Code, Zap
Tools and Processes:	Docker, Firebug, JIRA, Kibana, Wercker, Confluence, Crucible, Test-Driven Development (TDD), UML, CI/CD