

SIMRAN CHAWLA

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EDUCATION

NORTHEASTERN UNIVERSITY, College of Engineering

Master of Science in Computer Software Engineering

Related courses: Object Oriented Design, Web Development, Database design, Enterprise Software design, Algorithms

Boston, Massachusetts

Sep 2023 - August 2025

SHRI RAMDEOBABA COLLEGE OF ENGINEERING AND MANAGEMENT

Bachelor of Engineering in Computer Science and Engineering

Related courses: Operating Systems, Databases, Web Development

Nagpur, India

2014 - 2018

TECHNICAL SKILLS

Programming Languages: Java, Kotlin, Go, Python, HTML, CSS, JavaScript, Sass, SQL

Programming Paradigm: Reactive programming

Databases: MySQL, MongoDB, PostgreSQL, SQL

Frameworks: SpringBoot, Vaadin, ReactJS, AJAX

Architectural Design: Orchestration, REST, Microservices, Monolith

Deployment & DevOps & monitoring: Docker, AWS, TeamCity, Jenkins, Observability, Grafana

Middleware: Git, Github, Bitbucket, Apache Kafka, RabbitMQ, Backstage, Shell scripting

Practices: Pair programming, CI/CD, Agile, Scrum, Kanban, TDD, Clean code, Extreme Programming, unit testing, JUnit

WORK EXPERIENCE

PFIZER

Groton, CT, USA

Pharmaceutical Research & Development | Software Engineering Coop

May 2024 - December 2024

- **Optimized** chemical experimentation using **AI/ML algorithms** (Bayesian Optimization, Dragonfly, Dynamic Optimization)
- Designed and implemented a **Vue.js-based UI (using ipyVuetify)**, enabling chemical engineers to seamlessly interact with and operate complex backend algorithms
- **Managed** experimental data using **MySQL**, ensuring easy access and future reference. Performed code reviews for teams

THOUGHTWORKS TECHNOLOGIES

Pune, India

Lastminute - European travel tech company | Backend developer

April 2021 - August 2023

- **Designed and implemented a centralized database solution**, reducing data inconsistency across multiple products & improving query efficiency by 40% using Java
- Developed a user-friendly Back office application with Vaadin framework, boosting manual data management efficiency & accuracy by 30%
- **Enhanced system reliability** by integrating **Grafana, Slack alerts, & real-time monitoring**, reducing downtime by 30% & improving proactive incident response
- Consulted clients on optimizing products by leveraging ChatGPT, MidJourney API, & Backstage to enhance user experience, including dynamic Instagram post creation

Axis Bank - Retail banking | FullStack developer | Platform modernization Engineering

- Modernized consumer-facing UIs & backend systems for credit cards, personal & auto loans projects ensuring production readiness & implementing robust monitoring
- Ensured uniform code appearance across platforms with Step framework, allowing future updates with a single change in platform-level code for all products, enhancing efficiency & maintainability
- Promoted clean code & TDD with Mockito, achieving **92%** test coverage
- Conducted over 40 technical interviews & candidate assessment, enabling recruiters to hire best candidates for team
- Performed code reviews before pushing code to further environments
- Conducted impactful technical sessions on React, advance styling & TDD best practices for community enrichment

AYOCONNECT TECHNOLOGIES PVT LTD

Pune, India

Software Engineer, Backend

September 2020 - April 2021

- Ayopop API integrates with utilities, telecom, insures & service providers offering single connect to single API for facilitating online bill payment to consumers catering to **high-scale traffic**
- Integrated 4 service providers/billers to the API development platform by building separate **micro-services** in **Go** for each biller
- Migrated 2 biller integrations from monolith to micro service. Built each biller flow, deployed to production & monitored

ZS ASSOCIATES

Pune, India

Software Engineer

September 2018 - September 2020

- Worked in a feature development team for pharmaceutical Sales planning & compensation platform named Javelin Alignment Management
- Extracted data from upstream systems, generated reports & displayed them & built feature for user to see role based hierarchies
- Designed and implemented automation framework using Selenium, Cucumber, JUnit
- Mentored 3 software engineers, participated in their review cycles to help them to grow

PROJECTS

Library Management System

- A CRUD application with intuitive UI for seamless interaction of different user roles(admin, normal user)
- Implemented third party authentication using Okta SSO