

Shivam Garg

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gargshivam1101.github.io/portfolio | linkedin.com/in/garg-shivam | github.com/gargshivam1101

Motivated computer engineer with a work experience of over 3 years in the digital signing industry among a team of more than 30 engineers, showcasing innovative skills and demonstrating a fervent dedication to designing and delivering a range of diverse services applicable across various industries

EDUCATION

Masters in Electrical and Computer Engineering

Concordia University (**GPA: 4.01/4.3**)

Jan 2023 – Aug 2024 (expected)

Montreal, Canada

Bachelors in Computer Engineering

Thapar Institute of Engineering and Technology (**GPA: 8.24/10.0**)

Jul 2016 – May 2020

Patiala, India

TECHNICAL SKILLS

Programming: Java, TypeScript, HTML, CSS, JavaScript, Python, MATLAB

Frameworks: SpringBoot, Angular, Vue.js, Hibernate, Flask, gRPC

Databases: MySQL (MySQL Workbench), MongoDB (MongoDB Compass)

Developer Tools: Maven, JUnit, NPM, Docker, Kubernetes, Jenkins, ELK Stack, Postman, AWS, Figma, SonarQube

Version Control: GitHub, BitBucket

Project Management: Jira, Confluence, Trello, Slack

Languages: English - advanced, French - elementary

WORK EXPERIENCE

Software Development Engineer

MSB Docs

Jul 2020 – Dec 2022

Chandigarh, India

- Drove impactful contributions across the end-to-end development lifecycle, orchestrating the design, coding, and integration of new modules in feature-rich products through comprehensive front-end and back-end expertise
- Revolutionized OCR service, **cutting infrastructure costs by 98%** with AWS Serverless Lambdas and Step Functions, enhancing efficiency and cost-effectiveness.
- Introduced a Unified URL solution, streamlining the 4 regional instances of our product. Leveraged DynamoDB sharding techniques to ensure GDPR compliance, resulting in an enhanced user experience
- **Led a 12-member backend engineering team** in successfully transitioning our application's legacy monolithic architecture to a microservices paradigm, unlocking a multitude of advantages inherent in microservices adoption
- Created and deployed Microsoft and Google add-ons for our e-signing product, enabling users to send documents for signing directly, eliminating the need for manual uploads and **reducing manual efforts by upto 70%**

Software Engineer Intern

MSB Docs

Jan 2020 – Jun 2020

Chandigarh, India

- Transformed client onboarding with Angular-based Product Tour for intuitive navigation through key system functionalities, **reducing onboarding time by 55%** and eliminating the need for extensive team walkthroughs
- Designed and implemented real-time environment whitelisting feature, allowing customization of UIs based on more than 40 individual client configurations, editable in real-time by a superadmin
- Actively solicited constructive feedback from mentors and adeptly integrated it into my tasks, showcasing a dedicated commitment to ongoing refinement and professional development

Summer Intern

Slicksoft Technologies R&D

Jun 2017 – Jul 2017

Patiala, India

- Completed a 6-week summer internship gaining proficiency in Java and contributing to the development of various ongoing projects in a team of 9
- Major stakeholder in the development and in-time delivery of the Boot Catalogue System, a Java-based application for book inventory management, sales, and billing, improving efficiency for vendors and libraries

ACADEMIC PROJECTS

- **TourEasy** Apr 2024
Course: Model Driven Software Engineering | GitHub
 - Contributing to the development of a comprehensive Tour Booking System with auto-generated code using Java, emphasizing detailed design diagrams and OCL constraints for improved functionality
 - Aimed at streamlining tour management processes for customers, tour operators, guides, and administrators, focusing on intuitive user interfaces, and efficient coordination of tours
- **AutoGuard** Dec 2023
Course: Programming on the Cloud | GitHub
 - Developed a vehicle authentication system employing AWS services (Rekognition, Lambda, S3, DynamoDB, API Gateway) for image processing, serverless computing, and database management
 - Authored SwaggerHub documentation for project APIs, demonstrating effective communication and collaboration, while ensuring seamless integration with robust CI/CD pipeline using CodeBuild
- **TalentBridge** May 2023
Course: Software Engineering | GitHub
 - Led backend development using SpringBoot, facilitating freelancers to find projects and enabling seamless user connections, as well as contributed to Vue.js frontend, enhancing user experience
 - Served as Scrum Master for a team of 5, orchestrating Agile practices, utilizing Jira for user stories and task tracking, and Confluence for documentation
- **Blind Navigation System** Dec 2019
Capstone Project | GitHub
 - Aimed to empower visually impaired individuals for independent navigation, utilizing Python-based image recognition for object identification and 3 ultrasonic sensors for distance measurement
 - Implemented a solution with Raspberry Pi, making informed decisions based on sensor readings, and delivering real-time information to the user through a speaker using text-to-speech conversion

LEADERSHIP & EXTRACURRICULAR ACTIVITIES

- Nominated as a **member of the Concordia Chapter of the Golden Key International Honour Society** in 2023 as a recognition to my excellent academic results, volunteering in fundraisers to support local communities
- A **member of CU Bhangra Montreal**, actively participating in promoting and teaching Punjabi traditional folk dance through weekly dance sessions, workshops, and regular community events in Montreal
- Actively participated as a **member of the Spirit Club at MSB Docs**, orchestrating cultural celebrations, significant events, and an annual 3 day retreat at upscale resorts
- Engaged as an **active member of Har Hath Kalam**, served over 15 slums, aiming to create a nurturing environment for children from vulnerable populations, offering educational support, and facilitating donations
- Consistently **engaged in blood donation drives**, demonstrating a commitment to supporting life-saving efforts and contributing to the welfare of the community
- As the **Administrative Head at OWASP Thapar Student Chapter**, organized and executed the HackOwasp '19, an overnight hackathon open for all
- **Led a team of 36 individuals as Overall Management Head for LEAD**, orchestrating the planning and execution of events during Shoonya '18 at Thapar Institute
- Elected **Class Representative for a group of 88 students** during my undergraduate, acting as a liaison between peers and faculty to address class interests

COURSES AND CERTIFICATIONS

- *Software Architecture & Technology of Large-Scale Systems* by Anurag Yadav from Udemy
- *Advanced Design Patterns: Design Principles* by Eric Freeman from LinkedIn Learning
- *Learning Spring with Spring Boot* by Frank P Molley III from LinkedIn Learning
- *Angular - The Complete Guide* by Maximilian Schwarzmüller from Udemy
- *Python for Beginners: Learn Python Programming (Python 3)* by Jason Cannon from Udemy
- *Interview Preparation in C++* by CodingNinjs