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Shubham Patel
Toronto, Canada

LinkedIn | GitHub
Portfolio

SKILLS

Programming language	Java, TypeScript, Python, JavaScript.
Web Technologies	React.js, Node.js, Express.js, Spring boot, Material Ui.
Databases Systems	MySQL, MongoDB, FireStore, GraphQL, PostgreSQL.
Cloud Technologies	Amazon Web Services: EC2, S3, Lambda, ECS, Backup etc., Google Cloud Platform, FireBase, Azure.
Automation Tools	Docker, GitLab CI/CD, BitBucket CI/CD, Splunk, Jenkins.
Methodologies	Agile methodology, Design Patterns.
Code Quality	Code smells, Test Driven Development, Clean Code Practices, SOLID Principles, System Design.
Payment Tools	Stripe Payment Gateway, IWIRE.

EMPLOYMENT

Software Engineer II   Jan 2025 - Present
Tech Mahindra (Scotiabank)   Toronto, Canada
- Solely migrated the Wire Payment Transfer application **(IWIRE)** featuring **Pacs.008 and Pacs.009 wire transfer** from **Scotia Cloud (Azure)** to **Google Cloud Platform**, achieving autoscaling capability and resulting in **0 crash occurrences and 100% uptime** over 6 months.
- **Led the end-to-end modernization of the application stack**, upgrading from **JDK 8 / Spring Boot 2 to JDK 17 / Spring Boot 3** in under a month. I implemented a **GitOps-based continuous deployment pipeline** with **ArgoCD**, utilizing **HELM charts** for declarative deployments to **Kubernetes clusters** and **Google Container Registry (GCR)** for secure Docker image storage.
- Managed **Production support activities**, including **deployments, releases**, and **client engagement and support activities**, for Pacs.008 and Pacs.009 wire transfer modules using **Jenkins CI/CD** Pipelines for auto deployment and health check.
- **Leding the development of Return and Reject Payment modules Pacs.002 and Pacs.004** in compliance with the **CBPR+ (Cross-Border Payments and Reporting Plus)** specifications, implementing message flows specified by **ISO 20022** standards.
- Conducted **requirements analysis** and **story mapping** for 2 major features Reject and Return wires **Pacs.002 and Pacs.004** in alignment with **SWIFT mandate compliance**.
- Led deployment orchestration of the Wire Transfer Application across **IST, UAT, and Production environments** using **Azure Container Apps Control Plane (ACCP)**, integrating **SonarQube** for automated code quality checks and code smell detection.
- Contributed to the development of an **ISO 20022-compliant RTGS payment flow** for a Jamaica client as part of a cross-functional team, utilizing **React, and MySQL** within an **Agile environment**.
- Delivered solutions aligned with **High Value Payments (HVP)** standards, collaborating with cross-functional teams to enhance customer experience.
Framework: Java, Spring boot, React, HTML5, CSS, GCP, Azure, Kubernetes, MySQL, Jenkins.

Senior Full Stack Software Developer   April 2024 – Aug 2024
Oltre Financial   Halifax, Canada
- Frontend Redesign (100% Redesigned): Rebuilt the **Optiml Tax Savings optimization** product frontend using React.js and Chakra UI in one month, collaborating with a full stack developer and using Figma for design references.
- Integrated backend services with the new frontend, enhancing functionality and performance, **reducing page load time by 40%**, and increasing user engagement by 30%.
- Performed integration testing, identified and resolved bugs, achieving **99% uptime** and ensuring a smooth user experience.
- Optimized website for **100% compatibility across web, mobile, and tablet views** by creating reusable components, reducing code redundancy, and increasing maintainability.
- User Management and Communication Tool: Built an internal software to streamline user management and communication. This tool facilitates efficient mass email campaigns, personalized outreach, and enhanced customer support.
Frameworks: JavaScript, Typescript, React.Js, Chakra UI, Figma, MySQL, Java, Stripe payment gateway, AWS.

Full Stack Software Developer   September 2023 – December 2023
ReelData Inc.   Halifax, Canada
- **30% efficiency boost**: Collaboration of two-member team for Automation Environment generation using Flask APIs. Completed solo task for internal tool development for S3 file fetch tool in python.
- **90% user satisfaction**: Adapted user interface to hardware changes using React and Material UI in TypeScript. Figma for client interface planning.
- Java Spring Boot for backend and database upgrades using DTOs for database information exchange, Docker containers for test databases, and DBeaver for monitoring database changes in tabular form.
Frameworks: Ubuntu Linux OS, Java, Spring Boot, Python, React, Material UI, Figma, AWS S3, Atlassian suite.

Software Developer   October 2020 – November 2021
BE Asia PVT LTD.   Ahmedabad, India
- Crafted a website from scratch for searching Product marketing and catalogue prices.
- **10% Optimized Backend Efficiency**: Managed backend operations for cloud-based inventory management in Firestore.
- **20% faster data retrieval**: Leveraged Firebase and Python for backend infrastructure, real-time data synchronization and automate code building using CI/CD pipelines for website with enquiry options.
Frameworks: HTML5, React, Python, Firebase, REST API, Git, Gitlab CI/CD

Projects

Trivia Titans | Subject: Serverless Cloud Computing   May 2023 – September 2023
- 30% increase in user engagement: Collaborated to multi-cloud trivia game (GCP & AWS) with in-game chat, global leaderboard, and social logins. Boosted active players by 25% through social integration.
Frameworks: JavaScript, React, S3, DynamoDB, Web Sockets, Firebase Authentication, Fire store, Lambda, Docker, Cloud Run.

Cocktail Hour | Subject: Advance Cloud Computing   January 2023 – April 2023
- Designed & launched Cloud-based ingredient info website (AWS) with email notifications, reducing inquiries by 40% & improving UX for 1000+ monthly visitors (Cloud Formation).
Frameworks: AWS Services (S3, EC2, AWS Backup, CloudFormation, API Gateway, SNS), Git, React, Chakra UI.

CineScope | Subject: Advance Web Services   January 2023 – April 2023
- 15% performance gain: Constructed an IMDB-like web app with movie clubs, leveraging front/back-end automation for 30% faster dev time.
Frameworks: Typescript, React, NodeJS, Chakra UI for Front-end, Netlify, Render for hosting.

Student Bank | Subject: Advance Software Development   October 2022 – December 2022
- Web Application Creation and Development. Undertook the solo initiative of crafting a web application for banking transactions. Set up CI/CD for deployment automation on Heroku. Caused a 25% decrease in transaction processing times.
Frameworks: Spring boot, Thyme leaf, Gradle, Java, CI/CD, Jira.

EDUCATION

Master's in Applied Computer Science   September 2022 – December 2023
Dalhousie University (Halifax, Nova Scotia, Canada)   GPA: 3.8/4.3