

Ishan Makadia

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SUMMARY

Currently working as a Software Developer II at Canada Revenue Agency, with 3 years of experience in software engineering, focusing on full-stack development, cloud services, and scalable solutions. Record of transforming ideas into polished, scalable products with creativity and innovation. Quick learner with high aptitude across systems, processes, and technologies. Passionate about delivering quality products.

SKILLS

Languages	Java, JavaScript/ ES6, TypeScript, Python, C++, PHP
Technologies	ReactJS, Spring Boot, GraphQL, ExpressJS, NestJS, Redux, Material UI, REST API, Serverless
Database	MySQL, PostgreSQL, DynamoDB, MongoDB, Firebase, Neo4j
DevOps	Kubernetes, Docker, CI/CD, IaC, Git, Terraform, Nginx, Jenkins, Sentry
Testing	Junit, Mockito, Jest, TDD
Methodologies	Agile Development, MVC, TDD, Component-Based Architecture, SCRUM, Object Oriented Design, SOLID
Cloud Platforms	Amazon Web Services (AWS), Google Cloud Platform (GCP)
Other	ETL Pipeline, Code Smells, Microservices, Code Review, Leadership, Teamwork, Effective Communication

EDUCATION

Master of Applied Computer Science CGPA: 4.15/4.3	Dalhousie University, Canada	Jan 2023 – Apr 2024
B. Tech in Computer Engineering CGPA: 8.34/10	Nirma University, India	Jun 2017 – May 2021

PROFESSIONAL EXPERIENCE

Software Developer II - Canada Revenue Agency, Ottawa, ON Jul 2024 – Present

- Led the end-to-end development of a Java application designed to standardize server management across CRA's 3000+ developers, dynamically scraping any server in config file, provisioning new servers via REST APIs, and running 100+ integration tests successfully.
- Automated branch synchronization in Jenkins CI/CD by integrating a post-deployment stage to detect and merge new commits into target branches, significantly reducing manual effort, minimizing errors.
- Architected and implemented a logging system that identifies frequent error patterns and embeds resolution steps directly in terminal, enhancing issue traceability and self-troubleshooting, resulting in a 30% reduction in support tickets.
- Ensured optimal system functionality via code review, software maintenance, testing and providing active support.

Software Developer - Canada Revenue Agency, Ottawa, ON Jan 2024 – Jun 2024

- Automated dynamic schema fetch logic for remote databases by creating scripts to retrieve data rows and generate SQL for tables, schemas, sequences, and indexes, resulting in a 90% reduction in manual updates and ensuring real-time synchronization to local db.
- Migrated a widely used legacy refresh tool to Java by using advance design patterns: DAO for accessing data, singleton for resource management, Strategy pattern for refresh logic, improving system stability, adding user authorization to ensure secure access.
- Engineered a priority-based application deployment mechanism, reducing deployment time by 25% and streamlining update processes.
- Developed, and maintained several Java Maven plugins used by 20+ internal teams to assist in build processes.

Software Developer, Contract – BluWave AI, Halifax, NS Sept 2023 – Oct 2023

- Worked on backend for Dubai Taxi project architecture to optimize electric vehicles energy (Java, Apache NiFi, PosgreSQL)

Software Engineer – Toddle, Bangalore, India July 2021 – Nov 2022

- Contributed to the development of a SaaS product used in 100+ countries, worked with the Platform Team and Infra Team, contributing to full-stack development projects that impacted the entire platform and gaining hands-on experience in AWS Cloud.
- Developed 4 access levels for the product platform, enabling admins to efficiently manage and track 500+ internal team member's access.
- Worked in a team of 3 to develop a distributed system that ensured user data remained localized within regions. Contributed to the backend by redesigning APIs for replicated tables servicing 200k+ users, routing changes in both frontend and mobile apps.
- Fixed production issues, facilitated system architecture knowledge transfers, system design reviews, and mentored new graduates.
- Gained hands-on experience with multiple AWS services: Lambda, S3, Secrets Manager, IAM, CloudFront, AWS Aurora, API Gateway.

Software Engineer Intern – Toddle, Bangalore, India Jan 2021 – Jun 2021

- Recognized as a top-performing intern, by single-handedly building the Family Portal from scratch using React.js, Redux, GraphQL, PostgreSQL and Apollo GraphQL for efficient caching strategies, and delivered project ahead of schedule.
- Set up a pre-prod environment by critical changes in the backend codebase, serverless framework, and AWS infrastructure.

ACADEMIC PROJECTS

PawPals | [GitHub](#) | Tech: Java, Spring Boot, JUnit, TypeScript, JavaScript, ReactJS, CI-CD, TDD, Code Quality, JWT

- Full Stack application that helps pet-owners to connect with veterinarian; platform managed appointment booking, medical records.
- Removed 90% code-smells; adhering to design principles; adopted TDD; test cases with 75%+ code coverage; added 4 stages in CI/CD.

SightSenseAI | [GitLab](#) | Tech: AWS, Python, Node.js, React.js, EC2, APIGateway, Lambda, SQS, SNS, DynamoDB, Rekognition, CloudFormation

- Built a cloud-based AI application, enabling image labeling, content moderation, and searchable galleries, leveraging AWS Rekognition, Lambda, API Gateway, SQS, SNS, DynamoDB, and CloudFormation with a React.js frontend and Node.js backend.

KubePipeline | [GitLab](#) | Tech: GCP, Docker, Kubernetes, Terraform, CloudBuild, Artifact Registry, GKE, Source Repository

- Built microservices and containerized using Docker; deployed on Kubernetes/GKE; Utilized CloudBuild to trigger CI/CD; Used Terraform

OTHERS

- Machine Learning Conference Paper published in Springer – [Link](#) | Coordinated and managed **5+ events** including **TEDx**, Annual Tech Fest
- Certifications[[Link](#)] in **AWS** Cloud, GCP, Algorithms from **Stanford**, Web Application Specialization