

JILL VADSOLA

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PROFESSIONAL SUMMARY

Software Engineer with 2 years of production experience, now specializing in agentic AI and LLM application development. Architected an agentic AI underwriting assistant in TypeScript using the Mastra framework, a RAG pipeline over a vector database, and a multi-tier OpenRouter model gateway to ground LLM responses in source rules and reduce hallucinations. Strong full-stack foundation across React, Next.js, Node.js, and REST API design, with hands-on AWS, CI/CD, and Git.

TECHNICAL SKILLS

- **AI / LLM:** Agentic AI, RAG Pipelines, Vector Databases, Semantic Retrieval, LLM Orchestration, Mastra, OpenRouter, Prompt Design, Hallucination Mitigation
- **Programming Languages:** TypeScript, JavaScript (ES6+), Java, C#, HTML5, CSS3, SASS, SQL, JSON
- **Frontend:** React.js, Next.js, Component-Based UI, Responsive Design, Cross-Browser Compatibility
- **Backend:** Node.js, Express.js, Nest.js, REST API Design, Java Services, .NET Core
- **Databases:** PostgreSQL, MySQL, Elasticsearch, Vector Databases (Embeddings)
- **Cloud & DevOps:** AWS (Lambda, S3, Kinesis, EventBridge, CodeDeploy, DynamoDB), Docker, CI/CD, Git
- **Testing & Practices:** Jest (Unit & Integration), Code Review, Agile/Scrum, Jira, Cross-Functional Delivery

PROFESSIONAL EXPERIENCE

Scale Dev

Mar 2026 - Present

AI Engineer

Remote, Canada

- Architected an agentic AI underwriting assistant in TypeScript with the Mastra framework, orchestrating multi-step intake, carrier-assessment, and underwriting Q&A workflows
- Built a RAG pipeline over carrier guidelines and applicant data, embedding documents into a vector database for semantic retrieval to ground LLM responses and reduce hallucinations
- Integrated OpenRouter as a unified model gateway, routing requests across reasoning and fast/lite model tiers to balance latency, cost, and accuracy per task
- Built modular agent skills for intake extraction, parallel risk assessment across 6 carriers, and rate-class recommendation, with applicant-scoped multi-tenant access control

Amazon

May 2025 - Aug 2025

Software Development Engineer (Co-op)

Toronto, ON

- Shipped a React + TypeScript analytics UI (tables, filtering, pagination, exports) on an internal Amazon platform, released via code review and CI/CD (AWS CodeDeploy, S3)
- Cut analytics page response time by 40% by designing custom Java REST API endpoints (filtering, search, aggregations) over an Elasticsearch index
- Designed a cross-region AWS data pipeline (Kinesis, EventBridge, Java Lambdas) and a Java service streaming up to 100,000 records from Elasticsearch per request

RadicalRack Mobile Technologies LLP

Jan 2022 - Aug 2023

Software Development Engineer

Ahmedabad, India

- Owned customer-facing web pages and a Statistics dashboard end to end in React.js layout, styling, responsive and cross-browser behaviour
- Built Node.js backend services and REST endpoints powering the React UI, including the dashboard data layer
- Improved API response time by 30% through query tuning, indexing, and endpoint optimization on PostgreSQL and MySQL, delivering through Agile sprints with product, design, and QA

EDUCATION

Concordia University of Edmonton

Master of Science, Information Technology

Aug 2024 - Dec 2025

Edmonton, AB, Canada

Ganpat University

Bachelor of Engineering, Computer Engineering

Jun 2018 - Jun 2022

Mehsana, India