# SAHIL MAHEY

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## Skills

**Programming & Frameworks**: Java, Python, C++, JavaScript, TypeScript, HTML5, CSS3, React.js, Playwright, Cypress

**Cloud, DevOps & Databases**: AWS (Lambda, API Gateway, ECS, Fargate), Terraform, CI/CD, Jenkins, Splunk, PostgreSQL, MySQL, DynamoDB, MongoDB

**Other Tools & Technologies**: JSON, REST APIs, Postman, Git, Docker

**Data Science & AI**: Pandas, Matplotlib, Seaborn, Scikit-learn, TensorFlow, PyTorch, YOLO

## Experience

**QA Developer** — June 2025 − Feb 2026
*SiftMed* — *St. John's, NL*

− Developed automated testing and data validation pipelines using TypeScript, MySQL, and AWS Step Functions, processing documents through LLM workflows and surfacing discrepancies, improving reliability and evaluation speed.
− Performed QA and code review for web applications, identifying logic gaps, edge cases, and integration issues while collaborating with engineers to implement fixes, enhancing system stability and backend reliability.
− Led end-to-end QA for weekly releases including manual, automated, exploratory, API, and security testing, reducing critical bugs in production and increasing release frequency from once to twice per week.
− Triaged and investigated customer-reported issues via Salesforce tickets, prioritizing defects based on impact, and implementing solutions to improve application performance.
− Collaborated with pipeline and AI teams to optimize LLM-driven workflows, improving data labeling accuracy by 47% and reducing manual intervention by over 63%.

**Data Quality Specialist** — May 2024 − May 2025
*SiftMed* — *St. John's, NL*

− Validated, sorted, and labeled sensitive medical and non-medical data for customer-submitted documents, managing tasks through JIRA to meet SLA requirements within 24 hours.

**Software Developer** — Sep 2023 − Sep 2024
*Memorial University of Newfoundland* — *St. John's, NL*

− Designed and implemented scalable full-stack features for a web application using Remix, TypeScript, Chakra UI, PostgreSQL, and Java, improving search and filter performance for chemical compound datasets (Link).

**Software Developer Intern** — May 2023 − Aug 2023
*CSIpix Forensic Software* — *St. John's, NL*

− Integrated C++ modules using MFC and DLL with XML and binary NIST files to validate and display critical forensic data, ensuring application accuracy.

## Projects & Publications

**Breast Cancer Machine Learning Project** (Link) | *TensorFlow, PyTorch, YOLO, Pandas* — May 2024 - Mar 2025

− Developed Wave-ViT model for MRI breast cancer image classification achieving 94% accuracy; findings published in FLAIRS-38 Conference (Florida, USA).

**Affordable Housing NL** (Link) | *Excel, Power BI, Pandas* — Oct 2024 - Oct 2024

− Led data analytics project transforming datasets into actionable insights, winning 3rd place in CPA Data Analytics Hackathon.

**Serverless CRUD AWS Terraform** (Link) | *AWS, DynamoDB, Lambda, Terraform, Jenkins* — May 2024 - Jun 2024

− Built and deployed secure REST APIs with automated Terraform infrastructure, focusing on backend performance, cloud automation, and operational monitoring.

**Front-end Projects** (Link) | *React.js, HTML5, CSS3, JavaScript, Bootstrap* — September 2022 - July 2023

− Transformed design concepts from Frontend Mentor challenges into functional and visually appealing web applications.

## Education

**Memorial University of Newfoundland** — May 2020 - Dec 2024
*Bachelor of Science in Computer Science (Honours)* — *St. John's, NL*