

Bhavya Modi

Computer Science and Business Administration Double Degree
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TECHNICAL SKILLS

Languages: Python, C/C++, C#, Java, JavaScript, SQL, Elixir, HTML/CSS
Frameworks: React, Next.js, gRPC, Kafka, Pytorch, CSS Tailwind, JUnit, Selenium, Mockito
Tools: Git, Github, AWS Transcribe, Azure, Docker, DataDog, CircleCI, ArgoCD, Jira, Figma

EXPERIENCE

- theScore** Jan. 2025 - May 2025
Software Engineer, Internship Toronto, Canada
 - Improved microservices using **gRPC** + **protobuf** and **Elixir**, increasing customer support workflows by 15 minutes/request
 - Expanded **GraphQL endpoints** in **Phoenix** and synced microservices with **gRPC**, reducing data sync errors by 15%
 - Standardized user interface across 25+ pages and built reusable front-end components using **HTML**, **CSS Tailwind**, and **React**, accelerating new feature deployment by 3 days per release cycle
 - Implemented structured log formats using **Elixir** and **Datadog** to reduce unnecessary logging, saving \$1000/month
 - Led team to 1st place in a company-wide competition, using **Figma** and **SQL** to deliver a strategy to generate \$100M+
- DayForce** Jan. 2024 - May 2024
Software Developer, Internship Toronto, Canada
 - Utilized **Java** to design schemas and implement **Kafka** producer, consumer, and streams **API**, boosting data processing performance by 40% while coordinating with upstream and downstream teams for seamless schema integration.
 - Developed **CI/CD pipelines** to automate **Microsoft SQL database** builds and deployments using **Yaml**, saving 1 hour per deployment
 - Automated migration of 35,000+ lines of code from **Azure DevOps** to **GitHub** by writing a **PowerShell script**
 - Resolved 85+ security vulnerabilities using **C#** and **.NET** by using input validation and parameterized queries
- CMiC** Jan. 2023 - May 2023
Software Engineer, Internship Toronto, Canada
 - Implemented automated nightly build test system with **JUnit**, **Mockito**, and **Apache ANT**, achieving **95% test automation coverage** and reducing debugging time by 90%
 - Designed and implemented 20 custom reports using **Java**, **JasperReports**, and **SQL queries**, minimizing clients' manual data search by up to 75% through automated reporting
 - created 50+ detailed test cases for **SQL** functions, increasing code coverage from **50% to 75%**
- CMiC** May 2022 - Aug. 2022
Junior Software Developer, Internship Toronto, Canada
 - Developed and maintained a **test suite with 800+ automated JUnit and Mockito tests**, increasing code coverage
 - Optimized **ANT build scripts** to automate **JUnit test** execution using regular expressions, improving script execution and build times by 60%

PROJECTS

- MatchaGoose** | *Next.js, SQL, FAST APIs, Socket.IO, HTML/CSS* May 2025
 - Co-founded MatchaGoose, a web-app **connecting 500+ Waterloo students** for project collaboration and networking
 - Built a full-stack web application with a custom swiping interface using **Next.js**, integrated real-time chat using **Socket.IO**, and designed a **SQL backend with FAST API endpoint** to access database
- SignBridge** | *Python, Pytorch, AWS, REST APIs, Javascript, HTML/CSS* Jan. 2025
 - Developed a **real-time ASL translator** that integrates with platforms like Teams and Zoom using **Python**, **JavaScript**, and **AWS Transcribe APIs**, enabling bidirectional communication for users with disabilities
- WLP4** | *C++, Makefile* Nov. 2024
 - Developed a **C compiler**, implementing tokenization through maximal munch, syntactic and semantic analysis, code generation, and optimization techniques to efficiently translate and optimize source code using **C++**

EDUCATION

- University Of Waterloo** Waterloo, Canada
Honours Bachelor of Computer Science, Software Engineering Specialization Sept. 2021 - Aug. 2026
- Wilfrid Laurier University** Waterloo, Canada
Honours Bachelor of Business Administration, Finance Concentration Sept. 2021 - Aug. 2026