

# NEHA SOHAIL

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## Education

### University of Toronto

*Bachelor of Science in Computer Science*

Sep. 2021 – May 2026

Mississauga, Ontario

- **Dean's List Scholar, AWS Developer Associate Certified**

• **Relevant Coursework:** Software Design, Theory of Computation, Algorithms and Data Structures, Software Tools and Systems, Computer Organization, Probability, Machine Learning (Neural Networks), Robotics, Information Security, Computer Networking

• **Clubs & Leadership:** Associate - Maths and Computer Science Society (MCSS), Member – University of Toronto Aerospace Team (UTAT), VP External – Pakistan Professional Association (PPA), Orientation Team – UTM Student Union

## Technical Skills

**Programming & Development:** Python, Java, C++, C#, Ruby, HTML/CSS (Tailwind), JavaScript, React, React Native, .NET, REST/GraphQL, Flask, Django, Node.js, SQL (MySQL, PostgreSQL), NoSQL (MongoDB, DynamoDB)

**Tools & Platforms:** Git, GitHub, VS Code, PyCharm, IntelliJ, Eclipse, Expo, Docker, Kubernetes, CI/CD (GitHub Actions, TeamCity), Terraform, AWS (S3, Lambda, EC2, DynamoDB, RDS), SonarQube, SumoLogic, PyTorch, TensorFlow, scikit-learn

**Other skills:** Agile/Scrum, Synthetic + Unit Testing, OCR (Tesseract), NLP (OpenAI APIs, DialogFlow)

## Experience

### Xero

May 2024 – Aug 2025

Toronto, Ontario

*Software Engineer*

- Optimized data processing by replacing static delays with event-driven orchestration using **Temporal**, accelerating workflow execution for emails-to-bills and bills bulk upload by **10 seconds** and significantly improving system responsiveness.
- Implemented automated synthetic tests with **Selenium WebDriver** to **monitor 100M+ workflows** for bills bulk upload feature, increasing system reliability and enabling early defect detection.
- Developed a bills reminder feature (UI + email) using **Temporal** scheduled workflows and Xero Internal Mailing Service, **increasing user engagement by 25% and improving on-time payments by 30%**
- Resolved critical production incidents (UI bugs, service outages) by following runbooks and debugging protocols, minimizing downtime and ensuring SLA compliance.

### Vidyard

May 2023 – Aug 2023

Kitchener, Ontario

*Software Developer*

- Launched Plus & Pro self-serve subscription plans using **Vue.js** for front-end and **Ruby on Rails** for back-end, building responsive UI components (banners, buttons, interactive elements) and GraphQL schemas integrated with MySQL, enabling 500+ users to collaborate in workspaces, boosting team productivity by 30%.
- Integrated **Stripe API** for seamless, secure payments and configured **Datadog** to suppress 75% of validation and card errors, increasing successful checkouts by 25% while reducing noise in production logs.

### University of Toronto

May 2022 – Present

Toronto, Ontario

*Full Stack Software Engineer*

- Developing a rubric-based assessment tool for the Institute for Studies in Transdisciplinary Engineering Education and Practice (ISTEP) using **React** and **Supabase** to standardize grading workflows, improve consistency, and streamline instructor evaluation.
- Managed and updated the Master of Management & Professional Accounting (MMPA) website using **Drupal CMS**, ensuring 100% content accuracy and timely publication to enhance user engagement.

## Projects

### Appointify

*Django, React, Tailwind CSS*

- Co-led a team of 4 to develop a dynamic scheduling platform for 1:1 meetings.
- Implemented scheduling and calendar features using Django and REST APIs, handling 2,000+ meeting requests.
- Designed a responsive frontend with React and Tailwind CSS to enhance UX and accessibility.

### Google Developer Project - ELDEARLY

*React Native, OpenAI*

- Developed a React Native app using Expo to empower elderly people with technology education.
- Integrated a chatbot using OpenAI's ChatGPT API; planning to incorporate NLP in the future.
- Incorporated text-to-speech using Expo Speech module to improve accessibility, receiving positive feedback: **90%** acknowledged improved daily routines and tech comfort.

### DoseMate (In Progress)

*Python, OCR (Tesseract), OpenFDA API*

- Developing an intelligent medication machine to tackle medicine non-adherence.
- Integrated OpenFDA API to provide medicine details and side effects.
- Enabled adding medicines manually or via OCR scanning for ease-of-use.
- Designing adaptive, data-driven reminders personalized to patient habits.