



# DAN NGUYEN

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## TECHNICAL SKILLS

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**Languages:** Java, JavaScript/Typescript, HTML & CSS, Python, C

**Libraries/Frameworks:** Express.js, Node.js, JavaFX, JUnit, Jest, Selenium, Angular, Flask

**Tools:** Git, Linux, Ubuntu, GNU nano, GitLab, GitHub, Postman, npm

**Other Technologies:** SQLite, Sequelize, PostgreSQL, Docker, Github Actions, GCP/Google Cloud Platform

## EXPERIENCE

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### Software Developer

Aug. 2024 – Present

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- Collaborated in an Agile team through Slack to build a real-estate listing browser extension & SPA website.
- Constructed a **Flask** server to handle Docusign-related OAuth callbacks, account ID, access token, & base URI retrieval.
- Automatically prefilled PDF forms using PyPDF2, PyMuPDF, and third-party APIs offered by Docusign.

### Teaching Assistant

Aug. 2024 – Present

*Department of Computer Science, University of Toronto*

- Assisted teaching CSC236 (Intro. to the Theory of Computation): a mandatory second-year computer science course about the applications of mathematical logic and proof techniques to Computer Science.

### Software Developer

May 2024 – Aug. 2024

*Savi Finance*

- Utilized MERN-stack to implement an automatic user calendar sync feature for time-sensitive in-app goals.
- Worked in an **Agile** team by using Jira, Slack, and Confluence to design, share, and implement new app components.
- Demonstrated knowledge in **microservice architecture**: extended **GraphQL** middle-tier and **RPC API** by adding new resolvers, methods, and handlers for Google OAuth-related access & refresh tokens.

## PROJECTS

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### Net Nurture: Your Personal CRM | *HTML & CSS, Javascript/Typescript, PostgreSQL, Express.js, Angular, Node.js* July 2024

- Developed a single-page CRM app to help individuals maintain and grow their network by automatically managing a contacts dashboard containing the last date contacted, conversation summaries, email sequencing, and reminders.
- Fetched email threads using OAuth and email APIs. Provided conversation summaries automatically using **Gemini AI**.
- Configured **CI/CD pipeline** using Github Action workflows to build images using Dockerfiles, push to container registry, and SSH into **GCP** VM instance to docker-compose pull and run containers, resulting in successful deployment.

### Web Gallery | *HTML & CSS, JavaScript, Node.js, Express.js, SQLite, Sequelize* May 2024

- Designed a responsive single-page web gallery application, that allows users to upload, delete, and comment on posts.
- Constructed backend using **Node.js** for server runtime environment, and **Express.js** for **RESTful API** setup and routing.
- Created persistence storage layer for posts, images, and comments, using **SQLite** database with **Sequelize** ORM.
- Followed Model-View-Controller architecture by organizing codebase into separate folders for the model/data tables, static/view, and controller/routers, thus ensuring code maintainability and readability.

### Barney: The Adventure Game | *Java, JavaFX, JUnit, Agile* Sep. 2023

- Collaborated within a scrum to create a GUI-based adventure game with accessibility features using **Java** and JavaFX.
- Utilized JavaFX to create a GUI that supports in-game actions and in-game settings like, text-size adjustments, etc.
- Coordinated team efforts by organizing sprints, allowing for increased flexibility to meet client demands.

### Down the Marianas Trench | *Python, Pygame* Jan. 2021

- Created a water-themed, endless-scroller-type adventure game to raise awareness around marine pollution.
- Utilized Pygame to create a GUI that allows for player interactions and keeps track of current high scores.
- Implemented object-oriented programming practices such as inheritance for in-game objects, like jellyfish, plastic, etc.

EDUCATION

University of Toronto - CS Specialist + Stats Major + Math Minor + PEY Co-op

Sep. 2022 – June 2026

Candidate for Honours Bachelor of Science in Computer Science & Statistics

- Dean's List Scholar, Entrance Scholarship
- Relevant Coursework: Data Structures & Algorithms, Software Design, Computer Organization, Systems Programming

EXTRACURRICULARS

Tech Associate

Aug. 2024 – Present

Mathematical & Computational Sciences Society

University of Toronto

- Worked in an Agile team to develop and maintain MCSS's website utilizing MERN-stack and AWS.

Vice President

June 2023 – May 2024

Student Society for Algorithmic Modelling

University of Toronto

- Oversaw a team of 15+ executives and associates to educate students about the field of data science.
- Demonstrated public-speaking skills by presenting technical events involving SQL, LLMs and PowerBI.
- Analyzed survey data to readjust organizational goals, resulting in a ~50% increase in event attendance.

Logistics Officer

June 2023 – May 2024

Computer Science Student Society

University of Toronto

- Coordinated on-campus events by efficiently working in a team of 4 to reach out to sponsors and guest speakers.

Facilitator

Sep. 2023 – Dec. 2023

Robert Gillespie Academic Skills Centre

University of Toronto

- Led weekly classes of 25-50 students by consistently employing teaching pedagogies outlined by the Institute for the Study of University Pedagogy, improving student grades by ~6% on average.
- Prepared tailored session plans weekly through student feedback, which were given a grade of 100% by the PA.