

Sina Dehghani

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EDUCATION

University of Victoria

Bachelor of Computer Science

Victoria, BC

September 2023 - August 2027

EXPERIENCE

Application Developer

May 2025 – August 2025

Noratek Solutions Inc.

- Developed and shipped code for the City Reporter application using **Java OOP**, **Grails**, and **PostgreSQL**.
- Utilized **REST APIs** to implement **Google OAuth** to satisfy client feature requests.
- Utilized **Postman** for **API testing** and MantisBT as the primary ticketing system.
- Automated workflows using **shell scripts** & **Jenkins pipelines**, reducing test suite execution time by **6+ hours**
- Collaborated in daily **Agile** stand-ups to communicate progress, and ensure timely delivery of development tasks.

Software Developer

September 2024 – Present

VikeLabs

Victoria, BC

- Built an app that centralizes dining information across UVic food outlets, designed to serve **20,000+ students**.
- Created **REST APIs** using **Flask** to organize information and connect back-end with front-end.
- Developed a responsive **React** front-end with **Next.js**, featuring an interactive map and dynamic filtering.
- Built and optimized a **SQLite database** using **SQLAlchemy**, and managed **1000+ records**.
- Maintained code quality through **GitHub** pull requests and peer code reviews using feature branching.
- Followed **Agile practices** in a **team of 9-12** with 2-week sprints, while participating in planning, and stand-ups.

PROJECTS

Anchor | *Next.js, React, TypeScript, Tailwind CSS, Supabase, Claude API, Resend, Vercel*

March 2026

- Built a full-stack **Next.js** app in a **4 person team** targeting **3.5M North Americans** with psychosis disorders.
- Integrated **Anthropic Claude API** with a custom system prompt to deliver real time grounding conversations.
- Implemented **Supabase** for persistent episode logging, biometric baseline tracking, and user settings.
- Wired **Resend email API** for automated notifications with user consent, and opt-in/opt-out settings.

Polling App [🔗](#) | *Python, Flask, Pandas, HTML, CSS*

January 2025

- Created a **full-stack** polling application for creating and collecting votes.
- Utilized Flask for managing the web application, handling **HTTP requests**, and rendering HTML templates.
- Pandas was used for handling the data for the polls, voting options, and the number of votes.
- Dynamically Rendered HTML templates in Flask using Jinja2.
- HTML and CSS were used to create an attractive and user friendly front-end.

T-Rex Runner Game [🔗](#) | *JavaScript, HTML, CSS*

December 2024

- Implemented game mechanics using event listeners and physics-based gravity logic.
- Developed a score-keeping system that tracks the score and updates the record score after each round.
- Added a play-again functionality to reset the game while retaining the best score.
- Managed timers and intervals for smooth obstacle handling and gameplay.

Movie Platform | *React.js, Node.js, CSS*

December 2024

- Created a Movie Platform in which users can search for movies and add movies to their favorites.
- Implemented **Page Routing** in React to handle navigation between different pages.
- Built search functionality using React hooks to fetch search results from **TheMovieDB API**.

Self Driving Car Model - AWS Deepracer Hackathon Winner 2025 [🔗](#) | *Python, ML, AWS*

November 2024

- **Won 1st place at the hackathon**, coming within **0.048 seconds** of setting a new **hackathon record**.
- Developed and implemented **reinforcement learning** ML strategy to train the car.
- Utilized Python to create an algorithm that rewards positive actions and penalizes negative ones.

Hospital System [🔗](#) | *Python*

November 2024

- Developed a Hospital System in Python which implements **CRUD operations** to manage patient information.
- Utilized the **DAO** design pattern to improve system maintainability.
- Applied **Software Development Lifecycles** to ensure structured development, testing, and deployment.
- Designed and implemented **Unit Tests and Integration Tests** to ensure system reliability and functionality.
- Employed **Object-Oriented Programming** to create modular and reusable code.

Web Portfolio [🔗](#) | *JavaScript, HTML, CSS*

December 2025 - April 2026

- Creating a web application using **HTML, CSS, and JavaScript** to showcase projects and achievements.
- Utilizing HTML to create the foundation of the website and structuring the contents.
- Implementing an aesthetic design and ensuring cross-device compatibility using CSS.
- Enhancing interactivity and user interface with JavaScript.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, TypeScript, JavaScript, HTML/CSS, R

Libraries: Pandas, NumPy, jQuery, BeautifulSoup, Grails

Frameworks: React, Node.js, Flask, Spring, Selenium, JUnit

Databases: PostgreSQL, SQLite

Developer Tools: Git, GitHub, GitLab, Docker, MS Azure, MS Office, Jira, VS Code, IntelliJ, Eclipse, CI/CD, AWS

EXTRA CURRICULAR ACTIVITIES

Vike Labs

- Creating a web application to track all UVic campus food outlet info into one website.

UVic Environmental Engineering Club

- Developing and coding an unmanned submarine in Python.

EXTRA CURRICULAR ACTIVITIES

- **1st place AWS Deepracer Hackathon.**
- **University of Victoria Entrance Scholarship.**
- **Faculty of Engineering and Computer Science: Dean's Entrance Scholarship.**