

Daniel Lu

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Technical Skills

Programming Languages: C, C++, Python, HTML, CSS, Javascript, Java, C#, Flutter/Dart, Kotlin, SQL

Tools and Frameworks: Git, Bash, PowerShell, Linux, Flask, REST APIs, React, Node, Jetpack Compose, Visual Studio, Azure DevOps

Education

University of Waterloo

Sept. 2022 – Apr. 2026

Bachelor of Computer Science - Specialization in Software Engineering

GPA: 3.93

- **Relevant Courses:** Object-Oriented Software Development, Full-Stack Application Development, Operating Systems, Database Management Systems, Intro to Artificial Intelligence, Computer Organization and Design

Experience

Software Developer

May 2024 – Aug. 2024

Toronto Transit Commission

Toronto, Canada

- Specialized in developing and managing comprehensive solutions using React and ASP.NET Core, creating scalable full-stack applications tailored to the organization's needs
- Integrated third-party APIs to expand functionality and improve system efficiency, reducing manual data processing by 60%
- Migrated company databases from Oracle to Microsoft SQL Server, reducing cost by 73% and improving compatibility

Web Developer

Jan 2024 – Apr. 2024

GDSC Waterloo

Waterloo, Canada

- Led a team of developers in designing and building a full-stack web application for the organization using the MERN stack
- Implemented authentication and authorization using JWT and OAuth, enhancing application security and ensuring secure access control for user data
- Collaborated with UI/UX designers to implement user-friendly designs, resulting in a 15% increase in user retention

Systems Officer

Sept. 2023 – Dec. 2023

Ministry of the Attorney General

Toronto, Canada

- Developed and provided updates to ministry applications using C# and .NET MVC following Agile Methodology
- Designed and executed complex SQL queries to extract, manipulate, and analyze data
- Wrote PowerShell scripts to automate migration tasks, boosting efficiency by 70%
- Implemented CI/CD pipelines using Azure DevOps, reducing deployment times by 40%

Projects

Perch - 1st place out of 400 participants @ GenAI Genesis

Flask, Python, HTML, CSS, Javascript, Bootstrap

- Engineered a language learning model using Flask and Python, which automatically transcribes, translates, and summarizes lectures videos, delivering personalized language education to users in real-time
- Integrated real-time features such as live chat using WebSockets and Socket.IO, enhancing user engagement and interactivity

FriendLens - Prize Winner out of 350 participants @ Hack the 6ix

Flutter, Dart, Python, OpenCV

- Developed a mobile app in Flutter using Dart and Python that leverages computer vision to identify people in photos with 98% accuracy, streamlining the process of photo sharing
- Implemented facial recognition algorithms using the OpenCV library, ensuring efficient and accurate identification of individuals in images across various lighting and environmental conditions

Mealink - Berkeley Blueprint Project for Good

Kotlin, Jetpack Compose, Grade, Firebase

- Spearheaded the development of a platform connecting food donors with recipients, reducing food waste and combating food insecurity by facilitating seamless coordination between restaurants and welfare facilities
- Refactored the app's architecture to follow the MVVM pattern and single-activity design, enhancing maintainability and scalability as the app evolves

Accolades

- 4x Hackathon Winner
- Global Skills Opportunity Award (\$3500), John and Karen Wetmore Scholarship (\$3000), President's Scholarship of Distinction (\$2000), International Experience Award (\$1500)
- International Baccalaureate (IB) Score of 44/45 (top 1.61%)
- French Immersion (Bilingual) Diploma