

EDUCATION

Bachelor of Science, Computer Science	University of Calgary	Sept. 2020 – Dec. 2025
Bachelor of Commerce, Finance		GPA: 3.99

- *Coursework:* Object-Oriented Programming; Functional Programming; Data Structures & Algorithms; Databases; Networks; Computer Architecture; Microarchitecture; Visualization; Information Security

EXPERIENCE

Software Engineer Intern	Roblox	May 2024 – Aug. 2024
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- Built an efficient replies backend supporting 22 million+ users in C# and .NET by minimizing reads from a CockroachDB SQL database and making gRPC calls across a layered protobuf Microservices architecture
- Increased Platform Chat engagement by 22.5% by adding a clickable reply preview, context menu, draft, and push notifications to a Lua, React.js, Redux, and TypeScript frontend tested using Jest
- Improved discoverability, moderation, and funnel metrics by 23%, 11%, and 28% as measured by Grafana and Apache Superset by creating a FTUX modal, adding reply metadata, and iterating on feedback

Software Engineer Intern	Binance	May 2023 – Aug. 2023
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- Improved load times by 27% (0.9 seconds) by migrating 21400+ lines of code to a new Universal UIKit React.js library and converting existing CSS styles to TailwindCSS
- Created an internal org hierarchy chart for 450+ North American employees in React.js by transforming API data using a topological sort algorithm and feeding it into the D3 JavaScript library

Software Developer Intern	Arcurve	May 2022 – Dec. 2022
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- Executed workflows for 4500+ franchisees by building a task management page in Material UI, React.js, TypeScript, JavaScript, HTML and CSS that connected to a Python Django REST API
- Sent daily web and email notifications through Amazon SES to 1500+ users by building a Python Django REST backend that received webhooks from a third-party Jotform service
- Reduced onboarding time for new users from 600 to 15 seconds by generating CSV files from a data bucket using Python and Pandas, unit tested using Pytest

EXTRACURRICULARS

Advanced Marking Commissioner	Schulich Ignite	Jan. 2023 – Present
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- Lead team of 7 to mark over 50+ students' advanced weekly Python exercise submissions
- Achieved seamless execution of the year-end gala for 300+ students by diligently marking 50+ final projects within a 3-day timeframe

Computer Science Tutor	Calgary Bridge Foundation for Youth	Jul. 2020 – Present
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- Taught 11 teenagers Python by implementing lessons from the book "Automate the Boring Stuff"
- Obtained an average volunteer rating of 9.87/10 across 12 bimonthly surveys by incorporating student feedback
- Received Volunteer of the Month in July 2022 out of 350+ volunteers for having 225+ hours and providing feedback to increase program size from 15 to 40 students

PROJECTS

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- **ApliTrack** | *SQLite, Sequelize, TypeScript, React.js, Node.js, Express, Pug.js* – A full-stack job application tracking system; uses a relational SQL database designed using an Entity Relationship (ERD) diagram.
 - **Nexpedia** | *JavaScript, Node.js, Express, MongoDB, Mongoose, Pug.js* – Expedia clone for nature tours; REST API with an MVC backend architecture, authentication using JWT, server-side rendering with Pug templates, file uploading with Multer, payments using Stripe, Brevo email handling, deployed using Adaptable.

SKILLS

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- **Languages:** C#, SQL, protobuf, Java, JavaScript, TypeScript, Lua, Python, HTML, CSS, Pug
 - **Tools/Frameworks:** CockroachDB, .NET, Django, MongoDB, Node.js, Express, Pandas, React.js, TailwindCSS