

# Ernest Nikolaychuk

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## Education:

Bachelor of Science in Software Engineering

Expected May 2024

Schulich School of Engineering, University of Calgary

**Cumulative GPA:** (3.6/4)

**Scholarships and Awards:** (Jason Lang, 2024)

**Course Work:** Data Structures and Algorithms, Computer Organization and Architecture, Database Systems, Operating Systems, Computer Networks, Computer Security, Machine Learning and Artificial Intelligence, Human Computer Interaction, Biometric Systems, Software Requirements Engineering, Software Performance, Software Testing, Software Architecture.

## Experiences:

**Flutter/Mobile Developer, Personal Project (Flutter/Dart/Firebase) Aug 2022 - Present**

- Engineered a habit-building cross-platform app for Android & iOS with Dart, Flutter, SQLite, Firebase, and Google AdMob.
- Gained experience in XCode, Android Studio.
- Integrated APIs like Google AdMob, in-app purchases.
- Designed and implemented UX and UI using Figma and Photoshop.
- Utilized dependency injection and cubit state management for modular design.

**Software Contractor, Spaced Out Films (React/CSS/HTML) Sep 2023 - Nov 2023**

- Led development of Spaced Out Films' portfolio site with React, ensuring intuitive UI/UX via user feedback.
- Implemented Agile methodologies, achieving project delivery within 3 months.

**Machine Learning Engineer, Capstone Project (LLM/AI/GPTs/ML) Sep 2023 - Apr 2024**

- Developed vscode extension with AI/ML technologies for code review enhancement.
- Investigated LLMs for local/server deployment, enhancing internal development tools.

**Quality Assurance Intern, ShareSmart Communications (QA) Jul 2020 - Oct 2020**

- Lead QA for iOS app in a team of three; documented 20+ bug reports, UX suggestions.
- Proficient in Jira, GitHub; enhanced product quality and user satisfaction.

**Software Project, University of Calgary (React/Typescript//Node.js) Jan 2023 - Apr 2023**

- Worked in a team of 5 to create a marketplace app using React, HTML and Tailwind for frontend and Node.js with Typescript for backend and MongoDB for database.
- Organized meetings in an agile work environment to ensure completion before deadline.
- Used Github with SourceTree for repository management.

**Software Project, University of Calgary (SQL/NodeJS/CSS) Jan 2023 - Apr 2023**

- Led a team of three in an agile work environment to create a team management software using React for frontend and Node.js for backend with SQL database.

## Skills:

**Programming:** Flutter, React, Dart, Java, Typescript, Javascript, Python, C++, C, HTML, CSS, Tailwind, mySQL, SQLite, MongoDB, Firebase, Svelte, and Node.js.

**Development:** Git/Bash/GitHub, Agile, CI, DevOps, Windows, Linux, iOS, Android, Visual Studio Code, Android Studio and XCode, Arduino, Embedded Development.

**Software Knowledge:** Microservices, Modularity, Separation of Concerns, Performance.