Fredericton, New Brunswick, Canada
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Joseph JP Lavoie

PROFESSIONAL SUMMARY

Developer with a strong foundation in computer science and hands-on experience developing cross-platform applications, bioinformatics tools, and data processing systems. Proficient in Python, C++, Java, and Kotlin, with a proven ability to create scalable, maintainable solutions. Adept at working on both individual projects and collaborative team environments, with a focus on continuous learning and improving software development practices. Known for delivering high-quality results through attention to detail, problem-solving, and strong communication skills.

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, C#, JavaScript, HTML/CSS, Kotlin

Development Tools & Frameworks: React.js, Matter.js, wxWidgets, Android SDK, PyTest, GitVisual Studio, VS Code, IntelliJ IDEA, Android Studio

Core Competencies: Cross-Platform Development, Object-Oriented Programming, Systems Design & Architecture, Data Structures & Algorithms, API Integration, GUI Development

FEATURED PROJECTS

Inventory Manager (Oct 2024 - Present)

- Developed cross-platform inventory system with GUI using C++ and wxWidgets
- Implemented core features: tracking, search, filtering, and data persistence
- Designed modular architecture for scalability and maintenance
- Enabled multi-platform support across Linux, MacOS, and Windows

AI Page Summary (Dec 2024 - Jan 2025)

- Built Chrome extension using Hugging Face's BART-CNN for web page summarization
- Added customizable summary options and theme settings
- Implemented error handling and cross-browser compatibility
- Integrated summary history feature for enhanced usability

Kicker Predictor (Oct 2023 - Present)

- Created Python app for NFL kicker performance analysis and prediction
- Automated data collection with BeautifulSoup4 and rate-limiting
- Developed color-coded visualization for prediction display
- Integrated statistical modeling for accuracy improvement

DNA Sequence Analyzer (Jan 2025)

- Built bioinformatics tool for DNA analysis with FASTA support
- Implemented testing framework using Python and Pytest
- Created extensible architecture for future algorithm integration

EDUCATION

Cornell College, Mount Vernon, IA — *GPA: 3.63*

Bachelor of Science in Computer Science | August 2021 - May 2024

Relevant Coursework: Algorithms & Data Structures (A), Object-Oriented Programming (A), Discrete Mathematics (A), Bioinformatics (B), Systems Software (A-), Applications for the Web (A-)

HONORS & AWARDS

Dean's List: High Honors (2023-2024, 2022-2023) – Cornell College

Academic All-Conference (2023-2024, 2022-2023, 2021-2022) – MidWest Conference

Dean's List: Honors (2021-2022) – Cornell College

PROFESSIONAL COMPETENCIES

- Architecture Design & System Planning
- Cross-Platform Development
- Technical Documentation & Reporting
- Problem Solving & Analytics
- Team Leadership & Collaboration

REFERENCE

Leon Tabak — Professor of Computer Science at Cornell College, LTabak@cornellcollege.edu

Updated as of January 2025