

Mark Farinas

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Education

MacEwan University

Jan 2024 – Present

BSc in Computer Science — GPA: 3.6/4.0

- **Relevant Coursework:** Data Structures and Algorithms, Coding in Python, Programming using C and UNIX, Linear Algebra, Human-Computer Interaction, Software Engineering

University of Alberta

Sept 2016 – April 2021

BSc in Immunology and Infection

Projects

Schedulater - Exam Deferral Scheduling System

- Developed a full-stack exam deferral scheduling application for MacEwan University as part of a 5-person Agile/Scrum team, serving as Backend Developer with additional contributions to UI/UX design
- Designed and implemented a room booking system covering Buildings 5 to 11, including database schema design, conflict detection logic, and REST API endpoints
- Built backend services in Kotlin using the Ktor framework with SQLite for data persistence and Gson for JSON serialization
- Collaborated in bi-weekly sprints, participated in code reviews, and resolved technical challenges including serialization framework mismatches and merge conflicts in a shared codebase
- Tools: Kotlin, Ktor, SQLite, REST APIs, Gson, Git, Agile/Scrum

Calorie Tracker and Planner

[Repo Link](#) 

- Built a Python-based CLI application to log daily caloric intake and weight, estimate maintenance calories, and generate personalized nutrition plans for weight management
- Implemented custom data structures (linked lists), data validation, moving averages, and non-linear optimization (SciPy) to provide both algebraic and curve-fitted goal recommendations
- Added support for multiple file formats (CSV, JSON, TXT) and integrated a modular design for future scalability
- Tools: Python, SciPy, JSON and CSV file I/O, Object-Oriented Programming, CLI design

Phone Menu Transcriber

[Repo Link](#) 

- Developed a Python-based audio processing tool leveraging Whisper AI to convert automated phone prompts into clean, formatted menu options
- Automated transcription and parsing of verbalized numbers and instructions to improve accessibility and reduce manual effort
- Tools: Python, Whisper AI

Personal Portfolio Website

[Live Link](#) 

- Developed a Next.js portfolio website with a design system inspired by American Psycho's iconic business card aesthetic
- Implemented client-side routing, responsive navigation, and interactive hover states with a modular component architecture
- Tools: Next.js, React, Tailwind CSS, JavaScript

Hackathons

HackED 2026 - VocabMaxxing

Feb 2026

- Led ideation and UX design for a vocabulary learning Android app featuring a classical Greco-Roman aesthetic and speech-to-text practice functionality
- Produced low-fidelity and mid-fidelity wireframes across multiple design iterations, iterating on layout, colour scheme, navigation flow, and gamification mechanics (streaks, XP, coin shop)
- Implemented frontend screens in Kotlin and Jetpack Compose including the login page, home screen, and practice screen with microphone recording integration
- Tools: Kotlin, Jetpack Compose, Android Studio, Figma

Hack4Health Hackathon

April 2025

- Ideated and co-designed TiMED, a hardware-software medication management system targeting medication non-adherence in elderly and mentally ill populations
- Proposed a smart-lock pill dispensing device with time-based compartment unlocking, integrated notification alarms, and caretaker/family alert features to reduce missed doses
- Designed a companion mobile app wireframe in Figma featuring a daily medication schedule, prescription details, weekly adherence report, and QR-code-based device pairing for seamless onboarding
- Developed and presented a proof-of-concept demo using physical props to communicate the end-to-end product experience to a panel of judges, emphasizing a pharmacist-to-device dispensing workflow to reduce patient setup friction
- Tools: Figma

Professional Experience

Sales Associate *Popeye's Supplements*

July 2022 – Present

- Provide solution-based customer service focused on holistic health and wellness
- Advise clients on supplements supporting athletic performance, fitness goals, and overall well-being
- Conduct in-store demos and community engagement initiatives to educate the public on science-backed health solutions

Lab Specialist *Alberta Precision Labs*

Dec 2022 – Dec 2023

- Conducted COVID-19 surveillance research across multiple Albertan communities using PCR-based detection methods (qPCR and dPCR)
- Executed daily laboratory workflows including RNA extraction, RNA concentration, RT-PCR, and digital PCR with high accuracy and attention to protocol
- Performed data analysis using AbsoluteQ and Microsoft Office; supported reagent preparation and overall lab operations

Skills

Languages: Python, Kotlin, JavaScript, C, SQL

Frameworks & Tools: React, Next.js, Tailwind CSS, Jetpack Compose, Ktor, REST APIs, Git, GitHub, Android Studio, Figma, Microsoft Suite

Methodologies: Agile, Scrum, Object-Oriented Programming, Unit Testing, UI/UX Design, Wireframing

Soft Skills: Problem Solving, Collaboration and Communication, Adaptability, Research and Data Analysis