

Ayman Agamy

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Education

University of Manitoba

September 2020 - April 2025

- Bachelor of Science, Major in Computer Science
- Recipient of two scholarships for the Science Students' Association Tutoring Program
- Experience Record (Co-curricular) for peer tutoring Computer Science courses

Technical Skills

Programming & Development

- Frontend: React, Vue.js, TypeScript, JavaScript, HTML/CSS
- Backend: Python, Java, Rust, PHP, Grails
- Mobile: Swift (iOS), Java (Android)
- Database: PostgreSQL, MySQL, SQLite, MongoDB, Microsoft SQL Server, H2 Engine
- Testing: JUnit, Jest, Pytest, Selenium
- Format: R, LaTeX, Markdown, JSON, XML

Cloud & DevOps

- Cloud Platforms: AWS (ECS, S3, ECR, CloudFront), Google Cloud Platform (App Engine, Cloud SQL)
- Tools: Git, GitHub Actions, Azure DevOps, Jira, SonarCloud, Apache JMeter, CPanel
- Development Environments: Visual Studio, IntelliJ, WebStorm, Xcode, Android Studio

Soft Skills

- Communication: Strong verbal and written communication skills in English and Arabic
- Problem Solving: Ability to analyze and solve complex problems under pressure
- Teamwork: Experience working in cross-functional team environments
- Adaptability: Quick to learn and implement new technologies and processes
- Time Management: Proven ability to manage multiple projects while meeting deadlines

Work Experience

SkipTheDishes, Just Eat Takeaway

January 2024 - September 2024

Live Operations Specialist

- Provided key point of contact for couriers, communicating effectively using live chat, phone, and email
- Optimized delivery times by supervising deliveries on the platform
- Resolved interruptions to the delivery process, both proactively and reactively
- Ensured adherence to the automatic order distribution system
- Collaborated closely with Customer Services department, local operations teams, and other Just Eat Takeaway departments to ensure seamless delivery experience

Agriculture & Agri-Food Canada

May 2023 - September 2023

Programmer/Analyst (Small Systems)

- Developed a full-stack digital library management web application using Grails, React, and H2 Database Engine
- Developed a multi-lingual React application with i18next integration, enabling farmers across Canada to calculate Accrual Breeding Herd Adjustment and Adjusted Reference Margin (ABHA/AARM) for the government of Canada
- Maintained production control system's schedule, logs, and database, ensuring system availability and reliability
- Created comprehensive documentation for application functionalities and user manuals

Save On Foods

June 2022 - August 2022

Meat & Deli Clerk

- Provided exceptional customer service by assisting with product selection and offering recommendations
- Minimized shrink by managing inventory levels and identifying potential spoilage effectively
- Operated various wrapping and slicing machines safely and efficiently
- Maintained well-organized and visually appealing presentation of the Meat & Deli departments

- Executed quick, accurate transactions in a fast-paced environment while maintaining exceptional customer service
- Maintained sanitary workplace adhering to Canada's Food, Drugs, and Safety regulations
- Prepared and managed orders for multiple delivery platforms including SkipTheDishes, DoorDash, and 7NOW

- Taught elementary students Microsoft Office applications (Word, Excel, and PowerPoint)
- Created and graded theoretical and practical assessments
- Maintained a safe, interactive learning environment

Volunteer Experience

- Help first and second year students understand concepts and assessments in different computer science courses at the University of Manitoba.
- Tutor of the year award for the 2022-2023 academic year with over 250 hours of tutoring support for 90+ students

- Developed and maintained the school's website using React, PHP, and CPanel
- Created a custom Content Management System (CMS) for the school's library
- Developed a Visual Basic .NET tuition fees calculator for administrative staff

Projects

- Developed a front-end SwiftUI IOS application for winnipeg transit system, enabling users to track buses in real-time with lock/home screen widgets
- Implemented rate limiting and caching to reduce API calls and improve performance
- Utilized CoreLocation and MapKit to provide accurate location tracking and bus route visualization
- Published the application on the App Store with approval from Winnipeg Transit!

- Developed a command-line tool using C to visualize directory structures as ASCII trees with file previews functionality
- Implemented a custom file parser to extract file metadata and generate previews
- Utilized ANSI escape codes to render colorful and interactive trees in the terminal

- Developed a SwiftUI macOS application enabling users to customize default applications for different file types
- Implemented system-level integration for seamless file association management

- Architected and developed a full-stack utility platform using TypeScript and Rust, featuring file conversion, video downloading, and secure file sharing
- Implemented an architecture deployed on AWS, utilizing ECS for containerization, S3 for storage, and CloudFront for content delivery
- Designed and implemented RESTful APIs with PostgreSQL database integration for efficient data management

- Developed a full-stack web application using React and PHP, deployed on CPanel, to serve as the school's primary digital platform
- Implemented features for accessing school information, events, and resources while showcasing facilities and achievements
- Created an intuitive content management system enabling staff to update website content independently

- Developed a full-stack social media platform using React and Python, enabling users to share content in scheduled time capsules
- Implemented secure user authentication using Firebase Authentication
- Deployed the application on Google Cloud Platform using App Engine and Cloud SQL for scalability

Flights Analyzer

November 2022

- Developed a terminal-based analysis tool using Java and Microsoft SQL Server to process and analyze a 50GB dataset of flight records and weather data
- Implemented complex SQL queries and data merging algorithms to correlate flight delays with extreme weather conditions
- Created visualization tools to present performance metrics and reliability statistics for major US airlines over a 10-year period

Interests

- Technology: Exploring emerging technologies, open-source contributions, and mobile app development
- Fitness: Regular gym workouts, running, and maintaining an active lifestyle
- Learning: Continuous learning through online courses, technical blogs, and programming communities
- Gaming: Strategy games and puzzle solving for logical thinking development
- Travel: Exploring different cultures and gaining new perspectives