Nessim Yohros

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EDUCATION

Washington University in St. Louis, College of Arts and Sciences - *Cumulative GPA: 3.97*   St. Louis, Missouri
Bachelor of Science, Computer Science   *August 2023 – May 2027*
Honors/Awards: Dean's List
Relevant Coursework: Calculus I, Calculus II, Data Structures and Algorithms, Intro to Computer Science

PROFESSIONAL EXPERIENCE

Mastercard   O'Fallon, Missouri
Incoming Full Stack Software Engineering Intern – Internal Systems and Automation Technology   June 2025

WashU STEM Association | *Flutter, Firebase, Riverpod, JavaScript*   St. Louis, Missouri
Web & App Committee   August 2024 – Present
- Develop WUCT mobile app with Flutter for the WashU Chemistry Tournament branch of the WashU STEM Association
- Streamline communication between executive board and 150+ members using Firebase Messaging and iOS notification system
- Enhance event management through customizable profiles using Firestore Database and Riverpod for state management
- Maintain WUCT website codebase with JavaScript, updating event logistics and registration information to serve 500+ weekly users

CSE 131: Introduction to Computer Science | *Java, JUnit*   St. Louis, Missouri
Teacher's Assistant   January 2024 – January 2025
- Led weekly studio session groups assisting 100+ students with programming exercises in Java, improving class average by 10%
- Facilitated in answering questions during and after lectures, providing guidelines on assignments and class structure
- Coordinated office hours twice a week providing personalized support on coursework, programming concepts, and practice exams
- Attended training and grading workshops, refining teaching techniques and assessment strategies

HackWashU | *React, JavaScript, OpenAI*   St. Louis, Missouri
Participant/Member   October 2023 – May 2024
- Collaborated with a team of 4 to create an event discovery platform that displays detailed information of events near a user
- Focused on the React-based frontend, managing API requests from EventBrite and designing the user interface
- Managed the development of a feature that recommends nearby events based on prior user interests and interactions using OpenAI

PROJECTS

Live Lecture Companion | *Swift, Deepgram, Core Data, Storyboard, Git*   October 2024 – December 2024
- Captured real-time audio segmented into 10-second intervals using iOS AVFoundation kit and connected it via Storyboard
- Utilized multithreading to send audio to a student-developed LLM for insight extraction without interrupting live audio capture
- Adopted Deepgram for speech-to-text conversion and Core Data for storing session data
- Reduced latency by ~25% by implementing audio cleanup and filtering transcribed snippets using the LLM

Friends360 | *React, Node.js, Express, MongoDB, React Query, Mantine, Git*   June 2024 – August 2024
- Programmed a full-stack web platform for friend group map-tracking, plan making, and messaging
- Applied MongoDB to model friend groups, conversations, and user data, supplemented by React Query for client-side data storage
- Tracked location and distance of users and plans on a map using Google Maps API and reverse geocoding
- Integrated the Stream API for instant messaging among groups with long term messaging data being persisted in MongoDB

OWdle | *React, React Query, Mantine, Supabase, PostgreSQL, Git*   May 2024 – June 2024
- Built a video game application with advanced game features based on the popular video game Overwatch
- Created an authentication system using Supabase to retrieve user data such as game history, statistics, and leaderboard rankings
- Implemented a frontend using React to handle API requests for character data, form submissions, and UI components from Mantine
- Leveraged React Query for optimal data fetching of game history and user information to handle stale data and side effects

SKILLS & INTERESTS

Languages: JavaScript, Java, C++, Dart, Swift, SQL, Python, HTML, CSS
Frameworks: React, Flutter, Node.js, Express.js, JUnit
Developer Tools: VS Code, Eclipse, MongoDB, Firebase, Git, Supabase, PostgreSQL, Postman, Heroku
Libraries: React Query, Mongoose, Mantine, Redux
Concepts: Algorithms, Data Structures, Full-Stack, MVC Architecture, Object-Oriented Programming
Interests: Learning languages, Drawing, Video games, Skiing

Other Affiliations: Aventura Food Bank volunteer, Little Haiti community volunteer, NSU robotics builder and programmer