

Daniel Dong

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WORK EXPERIENCE

Software Developer | *Samaritan Ministries International* | Peoria, Illinois

July 2024 - Present

- Engineered a **recursive C# algorithm** distributing **\$2M/month** across a \$20M+/year bill-sharing program, preventing billing spikes and reducing 300+ support calls monthly
 - Built an **automated Bill-Sharing service** processing **\$200K/month** and 1,000+ bills per run, eliminating 50+ hours of monthly work for Processors
 - Delivered production updates and features to a large-scale **React** application serving 250K+ members for bill management, share tracking, and real-time in-app messaging

Web Developer | CGCW | Novi, MI

January 2024 - April 2024

- Built member registration tools in **C#** and **ASP.NET MVC**, emphasizing **SOLID principles** and separation of concerns to ensure clean, extensible architecture
 - Designed a normalized SQL schema and integrated it with a Data Access Layer using **Entity Framework** and **Repository Patterns** for scalable, type-safe database operations
 - Integrated a **Vue.js** frontend with backend **RESTful APIs**, enabling real-time form validation and improving registration usability

Software Engineer Intern | *Suitcase* | Ann Arbor, MI

May 2023 - August 2023

- Architected the full-stack solution for Suitcase, a banquet room visualization tool, enabling dynamic 3D asset management and real-time user interactions
 - Developed **Django backend APIs** to serve the Unity frontend, managing user, vendor, and product data efficiently
 - Optimized a **PostgreSQL** database and asset delivery via **AWS S3/CloudFront**, achieving 60% faster room loading times for 5000+ 3D models

Software Engineer Intern | Altair Engineering | Irvine, California

May 2022 - August 2022

- Developed automated Python scripts to refactor thousands of Fortran77/90 files—eliminating deprecated functions, unused variables, and syntax errors—to modernize the codebase and improve development efficiency

TECHNICAL SKILLS

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

Frameworks: .NET Core, React, Entity Framework, Django, Vue.js, React Native, Node.js

Tools/Platforms: Git, AWS (EC2, S3, RDS, CloudFront), Azure, PostgreSQL, SQLite, Moq, Linux, Visual Studio

RELEVANT PROJECTS

RANKED – Offline-First Ranking Mobile App | *React Native, TypeScript*

- Built a cross-platform mobile app for creating and managing custom rankings using **React Native**, with **Supabase** for authentication and cloud synchronization
 - Implemented an **offline-first architecture** with local **SQLLite** storage as the primary data source and background sync for remote updates and conflict resolution
 - Ensured data consistency through **transaction-safe operations**, rank offset handling, and optimistic updates with automatic rollback on failure

Reminisce - Travel Scrapbook App | *Kotlin & Python*

- Developed a **Django**-based backend with **RESTful APIs**, integrating Google Maps, Spotify, and Weather APIs for improved user engagement with real-time route and weather trackers and music preferences
 - Optimized data exchange between a **Kotlin**-based **mobile application** and its backend by refining JSON structures and API endpoints, enhancing data retrieval speeds and enabling real-time updates for 100+ data points per user

EDUCATION

University of Michigan - Ann Arbor

April 2024

B.S. in Computer Science and Cognitive Science

Relevant Coursework: Data Structures and Algorithms, Web Systems, Operating Systems, Database Management Systems, Machine Learning, Mobile App Development, Computer Vision

Interests: Sports (Basketball, Tennis, Volleyball, NBA), Music (Vocals, Guitar, Drums, Songwriting), Cooking, Baking

Fluent Languages: English, Mandarin, French