

Joseph M Hurd

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EXPERIENCE

Application Developer, Independent

2021 – Present

- Developed and deployed cross-platform applications to a global audience and converted 37% of product page viewers into users, acquiring tens of thousands of users in over 70% of countries around the world
- Strengthened data security by implementing authentication, input validation, and parameterized queries
- Reduced application size by 59% and increased content by 318% by performing procedural generation
- Improved reliability, efficiency, and operability by adopting loosely-coupled modular design practices

EDUCATION

Western Governors University, Salt Lake City, UT

2022 – 2024

Bachelor of Science, Software Engineering

PUBLISHED APPLICATIONS

HPTX (iOS)

apps.apple.com/us/app/hptx/id6444636988

- Utility and wellness application that is designed to treat apraxia and low-grade axonotmesis nerve injuries by turning the user's iPhone into a haptic controller that is capable of generating more than 10,000 unique haptic responses to re-educate nerve pathways through personalized stimulation therapy

Pocket Chops (iOS)

apps.apple.com/us/app/pocket-chops/id1598472861

- Music education application that guides drummers through tailored practice sessions by equipping them with more than 2,300 procedurally generated rudiments, 15 custom presets, progressive difficulty levels, various time signatures, an adjustable metronome with multi-sensory functionalities, virtual practice pads with input-responsive sounds and haptics, real-time accuracy feedback, and global community rankings

Doge Flyer (iOS/Android)

apps.apple.com/us/app/doge-flyer/id1562934621

- Arcade style racing game that enlists users to fly through space, dodge asteroids, activate powerups, and collect coins while unlocking upgrades and competing on globally ranked leaderboards

PROJECTS

Product Backlog (iOS/Android)

github.com/joethehurd/ProductBacklog

- Management productivity application that enables project managers to prioritize and manage products, tasks, and requirements, with features including CRUD operations, login functionality, advanced search capabilities, report generation, and automated sorting for enhanced project organization

Curriculum Builder (Android)

github.com/joethehurd/CurriculumBuilder

- Education productivity application that enables students to build and manage academic terms, courses, and assessments, with features including seamless data entry, modification, and deletion, customizable alerts, and convenient note-sharing capabilities via SMS and email

Scheduling Software (Windows)

github.com/joethehurd/SchedulingSoftware

- Business productivity application that enables users to manage customers and global business scheduling processes, with features including login functionality, report generation, appointment tracking, user activity logging, notifications, and automated adjustments for language, time zones, and daylight savings

Inventory Management System (Windows)

github.com/joethehurd/InventoryManagementSystem

- Business productivity application that enables users to track and manage products and associated parts, with features including manufacturer tracking, search functionality, and secure input validation

SKILLS

Back-End Development: C#, Java, Python, C++

Front-End Development: XAML, HTML, CSS, WordPress

Data Management: SQL, SQLite, MySQL, PostgreSQL

UI/UX Design: Figma, Inkscape, AutoCAD, Adobe XD

Development Tools: .NET Framework, MAUI, Unity, Visual Studio, IntelliJ, Xcode, Android Studio, Git

Certifications: AWS Cloud Practitioner, CompTIA Project+, CompTIA A+, ITIL IT Service Management