

Derek Dorr (he/him)

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EXPERIENCE

Clubspeed

Irvine, CA

Software Engineer

Sep 2021 – July 2024

- Engineered cloud-native serverless solutions on AWS to drive innovation for over 300 family entertainment businesses
- Spearheaded the development of go-kart speed control software in C# that utilized a network of IoT hardware to assure driver safety, resulting in a first-of-its-kind software safety solution for over 100 go-kart facilities
- Revitalized the business scheduler in Visual Basic to provide users with a more flexible user interface that delivers increased insights into facility operations and scheduling for thousands of users
- Collaborated with project stakeholders to develop robust business solutions for improving online sales through PHP Web APIs and React front ends

EDUCATION

California State University Fullerton

Fullerton, CA

Master of Science - Computer Science

2024

California State University Fullerton

Fullerton, CA

Bachelor of Science - Computer Science

2021

PROJECTS

Story Point Poker

2025

- Developed a web-based multiplayer AGILE sprint planning tool using HTML, JavaScript, HTMX, and Go, which allows users to participate in planning upcoming AGILE sprints with their teams
- Created a multithreaded web server in Go, designed to scale up to thousands of concurrent users across hundreds of active game sessions

Graduate Thesis

2024

- Surveyed published research on multiplayer online game networking technology to develop a framework for studying the impact of latency on the player's experience in online games
- Developed a robust networking architecture in C++ using the UDP networking protocol that ensured minimal latency for the end user

MonkeyScript Web REPL

2024

- Designed an online terminal emulator using HTML, JavaScript, HTMX, and Go, which allows users to program in a custom-made interpreted programming language
- Programmed an interpreter in Go for a custom programming language specification, utilizing an abstract syntax tree for lexical token analysis
- Deployed a Docker container containing the Go web server to the Azure Container Apps service for cloud-native hosting

Yu-Gi-Oh! Market Watch

2023

- Collaborated with a Yu-Gi-Oh expert to develop a web-scraping data analysis tool in Python, which processed and visualized 20 years of historical market data of over 20,000 Yu-Gi-Oh cards
- Utilized parallel and asynchronous programming techniques, reducing the program's runtime from over 20 minutes to 6 seconds

SKILLS

Programming Languages: C++, Python, Go, JavaScript, SQL, Git/Github, C#, VisualBasic

Software: Visual Studio, Docker, Azure, AWS, HTMX, React, NextJS, Linux, Microsoft SQL Server, SQLite, .Net, AI

CERTIFICATIONS

Azure Developer Associate (Microsoft), **Microsoft Azure AI Essentials** (Microsoft), **AWS Cloud Practitioner** (AWS Cloud Quest), **Certified in Cybersecurity** (ISC2), **Docker Professional** (Docker Foundation), **C++ Programming Professional** (OpenEDG C++ Institute)