

# Derek Dorr (he/him)

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## EXPERIENCE

### California State University Fullerton

Fullerton, CA

*Graduate Student*

Aug 2022 – Dec 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

### 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

*M.S. Computer Science*

2024

### California State University Fullerton

Fullerton, CA

*B.S. 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

### 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, effectively reducing the program's runtime by 200%

## 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

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