# **Jack Sheridan**

Senior Software Engineer

#### **EDUCATION**

- UC San Diego Masters in Computer Science
  - GPA: 3.888 ~ Graduated Cum Laude
  - ❖ SEPTEMBER 2021 JUNE 2022
  - Focusing on Computer Systems depth: software engineering management, database design and implementation, distributed computing, and distributed networked systems.
- UC San Diego Bachelors in Computer Science
  - GPA: 3.841 ~ Graduated Cum Laude
  - ❖ SEPTEMBER 2018 JUNE 2021
  - Studied basic software topics: data structures, algorithm design, computability, and complexity.

#### **EXPERIENCE**

# Citizenly — Senior Backend Engineer





Managing an international team designing and building a TypeScript backend infrastructure as well as an extensible relational data model for a large data pipeline. In charge of all DevOps, as well as AWS deployment on S3, Cloudfront, Lambda, RDS, and EC2. CEO John Horton reference available upon request.

# Odyssey Teams — Full-Stack Software Engineer



♦ JULY 2020 - MARCH 2022

Contract built a web application that splits an image into a grid, provides each tile to participants, and reassembles an image from the participants' uploaded recreations.

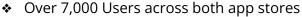
# Do All Outdoors — Mobile Software Engineer

❖ Nashville, TN ~ Fully Remote



 Contract built an app that connects via Bluetooth Low Energy to a skeet thrower to 'pull' skeet or randomize throwing angle.
Includes voice recognition for hands-off control. iOS (Swift) and Android (Kotlin)

# ❖ Triton Dine — Mobile Application



iOS (Swift) and Android (Kotlin)

❖ An app that connects to the UCSD dining dollar service and budgets dining dollars for the rest of the school year.

# assassin — Full-Stack Mobile Application

Over 4,700 beta testers

iOS (Swift) and Android (Kotlin)

❖ An app and a server that facilitates a competitive last-man-standing tag game. Includes a completely custom ReST API to interact with a MongoDB database.

**Cell:** [Available upon request]

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#### **SKILLS**

## **APIs and Backend Development:**

- ReST, GraphQL, JSON, Protobufs, gRPC, WebSockets, SSE
- Reverse Proxies, Load Management and Distribution
- NodeJS/NPM & Express
- Nginx, Apache
- JWT Signing and Verification
- TLS certification
- Apple, Google Authentication

# **Cloud Management:**

- AWS EC2, S3, CloudFront, SAM, Lambda
- Google Cloud Console
- Digital Ocean Droplets and Spaces

#### Databases:

- Document DB (MongoDB)
- SQL (PostgreSQL, MySQL)
- Extensible Schema Design
- Database Implementation
- Query Processing & Optimization

## iOS Development:

- XCode & Swift & SwiftUI & UIKit
- In-App Purchases & Paid Apps
- App Store Connect Management
- Local & Remote Push Notifs

## Android Development:

- Android Studio Platform
- Java, Kotlin, XML Layouts, Jetpack Compose
- Google Play Console Management
- Local & Remote Push Notifs

## Web App Development:

- ReactJS, NextJS, SvelteJS, Flutter
- JavaScript, Typescript
- Cookies, authentication management
- SSR & CSR
- HTML, CSS, PHP

## <u>OOP:</u>

- C, C++, Java
- Design Patterns