RYAN C. WALTERS

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EDUCATION

The University of Texas at San Antonio   **San Antonio, Texas**
Computer Science, Bachelors in Science   *May 2021 – May 2025*
- Database Systems, Data Structures, Algorithms, Computer Architecture, Computer Networking, Operating Systems, Application Programming, Systems Programming, Programming Languages, Computer Organization

PROFESSIONAL EXPERIENCE

Karat   **Remote**
Interview Engineer   *July 2023 – Present*
- Conducted and analyzed interviews for a variety of applicants in the engineering field
- Provided fair, objective, and high-quality environments to bring out the best in each candidate.
- Authored comprehensive and objective write-ups for clients in a timely manner.

SmartDraw Software (Contract)   **Remote**
Software Engineer   *January 2024 – April 2024*
- Developed backend C# for a legacy internal platform, ensuring seamless functionality and user experience.
- Designed and implemented front-end with HTML, CSS, and legacy JavaScript, enhancing the interface and usability.
- Optimized and managed SQL queries in MySQL, improving database performance and reliability.

USAA   **San Antonio, Texas**
Software Engineer Intern   *May 2023 – August 2023*
- Developed and maintained a scalable Kafka-based distributed service for account closures in Bank IT using Spring Boot.
- Managed third-party vendor requests, ensuring data validation and seamless integration for upcoming migration.
- Created and maintained comprehensive & fluent documentation for a complex Java codebase.
- Seamlessly integrated corporate test suites into new Spring Boot services, optimizing testing processes & project security.

Black Pearl Technology, Inc.   **The Woodlands, Texas**
Software Development Intern   *May 2022 – May 2023*
- Constructed a multi-platform mobile app, database & webserver to increase productivity for a remote manufacturing facility.
- Designed a component management & inventory system supported by a custom MH 10.8 ANSI barcode scanner enabling fast insertion of items into an RFID-based tracking system.
- Developed a low-level microcontroller program to interface with a TI RFID/NFC Transceiver to read & write raw byte blocks and UIDs off ISO 15693 tags.
- Learned and applied C# .NET, Xamarin Forms, ASP.NET, and MVVM/MVC to develop internal projects from scratch

PROJECTS & OUTSIDE EXPERIENCE

Amazon OSCI 2023   **Remote**
OSCI Mentee   *August 2023 – November 2023*
- Selected from 2,000+ to be mentored in Amazon OpenSearch's OSCI program, becoming 1 of 240 mentees.
- Contributed to OpenSearch development with pull requests on GitHub alongside Amazon's OpenSearch engineering teams.

Portal   portal.acmutsa.org
Lead Developer   *June 2022– Present*
- Created and led development on the membership database and event management application powering ACM-UTSA, the de-facto computer science organization on-campus at UTSA.
- Used by over 1,600 members with over 3,500 unique check-ins over 450 events since inception.
- Reduced check-in time by 80%, increased feedback by 200%, and increased event visibility for sub-organizations.
- Built with React, Next.js, tRPC, and Typescript, hosted on Vercel.

The Office   office.xevion.dev
Creator   *May 2022 – Present*
- A Vue.js web app revolving around the 2005 sitcom *"The Office"* that indexes 52,000 quotes from 100+ unique characters.
- Real-time searching (*2ms*) with context viewing abilities built on serverless functions to minimize costs.
- Parses and extracts quotes from 201 different episodes, efficiently uploading them to the cloud to be indexed by *Algolia*.

ACTIVITIES & LEADERSHIP

The Association of Computer Machinery at UTSA   **San Antonio, Texas**
Projects Officer   *April 2022 – May 2023*

SKILLS & INTERESTS

Python, Java, Javascript, C++, C#, Rust, Go, Statistics, Ruby, Kotlin, C, Typescript, CSS, SQL, Bash, Docker, React, Vue.js, Node.js, Spring Boot, ASP.NET, Debugging, Machine Learning, Streaming, Web Development, Backend, Front-end Development, Angular, Kubernetes, Linux, Microservices, Mobile Development, MongoDB, Version Control, Ruby, JUnit, Mockito, Django, REST APIs, Redis, Load Balancing