

# Daniel Valenzuela

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## Objective

Aspiring software engineer with hands-on experience in full-stack development, real-time collaboration tools, and machine learning. Seeking a software engineering internship to apply practical knowledge and contribute to impactful projects.

## Education

### Western Governors University

Bachelor of Science in Computer Science | Millcreek, Utah | Expected Dec 2025

### University of Illinois at Chicago

Completed 3 years of coursework in Computer Science (Transferred) | Chicago, IL | 2020–2023

## Technical Skills

Languages: Python, JavaScript, HTML, CSS

Frameworks & Tools: React, Node.js, Flask, Bootstrap, Socket.IO, Git, SQLAlchemy, Pygame, Visual Studio Code

Concepts: WebSockets, API Integration, Responsive Design, Agile Development, Cloud Fundamentals

Interests: AWS, GUI Development, Web Application Testing

## Projects

### AI Fake News Detector — Python, Flask, JavaScript, Bootstrap

- Built a full-stack machine learning app that classifies news as Fake or Real based on input text or URLs.
- Used Naive Bayes with TF-IDF via Scikit-learn to power classification logic.
- Integrated Newspaper3k for article scraping and SQLite for storing results with SQLAlchemy.
- Designed a responsive Bootstrap UI with confidence scoring and query history.

### Real-Time Collaborative Editor — HTML, CSS, React, Node.js, Socket.IO

- Created a Google Docs-style document editor with real-time multi-user editing.
- Integrated WebSockets to sync document states instantly across clients.
- Managed connection handling, synchronization logic, and frontend state management.

### Algorithm Visualizer — Python, Pygame

- Developed an interactive visualization tool to demonstrate sorting algorithms like bubble, merge, and quick sort.
- Included dynamic animations and user controls for adjusting algorithm type and data size.

## **Experience**

### **Lifeguard — Chicago Park District**

Chicago, IL | Aug 2021 – Present

- Enforced safety protocols at Chicago's busiest beaches and pools.
- Delivered emergency response care and taught instructional swim classes.
- Collaborated with a team to ensure incident prevention and daily readiness.

### **Volunteer Junior Developer — iOS Hotel Booking App Project**

Remote | 3-month project, 2020

- Assisted in development tasks and testing features for an iOS-based booking system.
- Gained exposure to collaborative development and mobile app workflows.

## **Additional Information**

Portfolio & Code Samples: <https://github.com/DanV27>