

# Donovan Conrad E. Uy

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## Summary

Driven and passionate full-stack developer with 3+ years of experience in designing, developing, and implementing AI-integrated React Apps for applied computer vision and semantic analysis solutions. Proven ability to work independently and as part of a team, with a strong focus on delivering reliable user-friendly products adhering to best practices and industry standards, while seeking to adapt the newest technologies and methodologies. Excited to bring my expertise towards developing truthful, competent, and maximally beneficial AI systems as a Software Engineering Specialist on the Human Data team.

## Skills & Technology

- Oral and written communications skills (technical and non-technical)
- Programming: JavaScript, TypeScript, Java
- Frameworks: ReactJS, Expo, NodeJS, NextJS, TailwindCSS, BreeJS
- Platforms and Databases: Google Cloud, Firebase, MongoDB, SQL, AWS, Docker
- Tools: Git & GitHub, Figma, VsCode, Google Workspace, Slack, Zoom
- AI Models: Grok 2.0, Gemini Pro, Chat GPT 3.5 & 4.0, Claude 3.5 Sonnet
- OS: Windows 10

## Experience

### **Full-Stack Developer** (Aug 2023 - current) | **Quizzy News**

- Implemented Figma comprehensive designs into React application codebase, contributing 8,413 lines of code across 62 git commits.
- Integrated and configured Expo build process for application hosting via Firebase.
- Automated the generation of 8.95 questions per day over 350 days via job-scheduling software.
- Modeled and delivered a NoSQL database which currently houses 3100+ question artifacts.
- Optimized quiz-generation service, reducing processing time from more than 60s to 15s, increasing efficiency & scalability.
- Provided documentation and research reports for both technical and non-technical team members.

### **Mobile-App Developer** (Jan 2022 - Jan 2023) | **iSeaTree**

- Reported on computer vision edge-cases related to tree species identification, e.g. photos of drawings, screens, or faux bonsai trees.
- Resolved major bug in the tree information screen to instead query by scientific identifiers rather than vernacular names.
- Designed & implemented AI-API data fetching to better retrieve/store comprehensive tree species data.
- Researched & proposed data visualization techniques to implement in GIS layer design & development for the user-submitted tree data dashboard.
- Performed rigorous and detail-oriented debugging to minimize crashes and improve developer experience.

## ***Sr. Production Assistant*** (Aug 2024 - current) | **San Joaquin Delta College**

- Led front-of-house operations, including show set-up, run, and strike.
- Reported and resolved facility issues for the safety and comfort for staff and patrons.
- Maintained positive relationships with clients, guests, and co-workers.
- Trained, directed, and oversaw staff and student employees.
- Directed and maintained event schedules and production calendars.

## ***Educator*** (Aug 2024 - current) | **Scout Education**

- One-on-one tutoring for students in grades K-12 in the areas of mathematics, science, geography, and English.
- Developed and implemented weekly lesson plans and daily activities to meet individual student and class needs.
- Helmed extracurricular LEGO Robotics club for K-5 students, promoting critical and creative thinking as well as programming literacy through Scratch.
- Engaged patience, empathy, and understanding with students of special needs.
- Provided assistance and support to parents, teachers, and administrative staff.

## ***Kitchen Expo*** (Jan 2019 - 2022) | **Chili's Bar & Grill**

- Prepared & stocked production line to ensure efficient and timely delivery of service.
- Maintained positive rapport with management, clientele, and co-workers.
- Orchestrated communications between production and sales team members to ensure excellent customer service.
- Provided the team with updates on products, policies, and technology.
- Attended final quality assurance check on service units against brand and company standards.

## **Education**

### **University of the People**

*BS Computer Science*  
*2026 expected graduation*

*Digital Electronics and Computer Architecture, Statistics, SQL Databases, Java Programming, Basic Accounting, Principles of Business Management, Web Programming, Analysis of Algorithms, Data Mining & Machine Learning, Data Structures*

### **University of South Florida**

*General Engineering*  
*2012 - 2016*

*Intro to Anthropology, Calculus III, Intro to Electronic Music, General Physics I & II, General Physics II Laboratory, General Chemistry II & Laboratory, Programming Concepts (Java), Program Design (Java)*

## **References**

Quizzy.News Owner & Designer

Quizzy.News Developer

Quizzy.News Developer

iSeaTree Product Owner