



# Projects for USF CS Students 2023

By Jose Alvarado

# Introduction



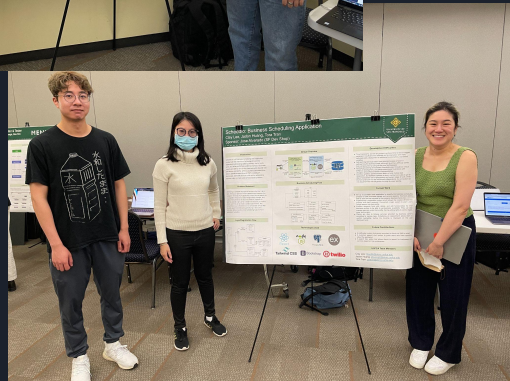
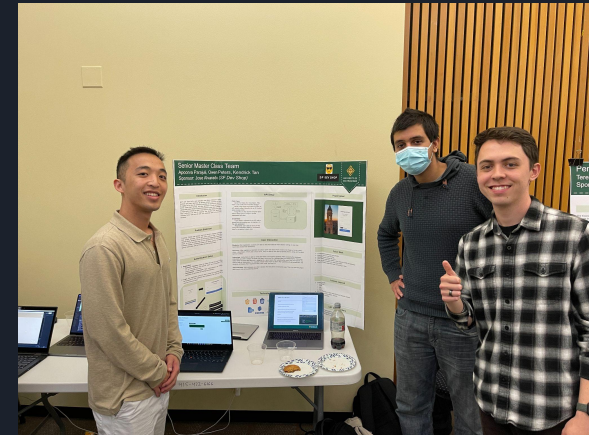
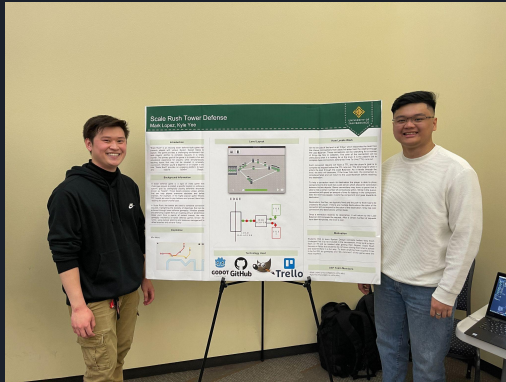
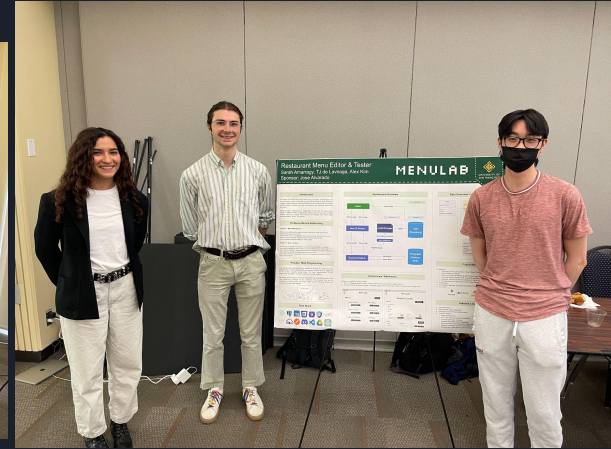
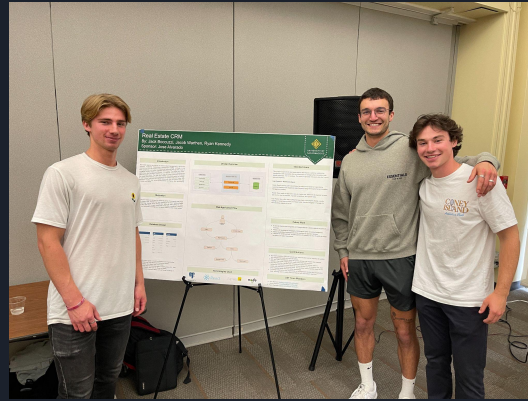
Jose Alvarado

2015: M.S. in Computer Science from USF

- Business Owner
- iOS Software Engineer
- Sold Battle Blast Laser Tag in Nov 2022 for \$500K
- Engineering Manager where I managed the mobile, web, and platform teams
- Founded 3 startups
  - 2 successful exists
- Founded SF Dev Shop
  - Freelance projects on the side for other companies

# Student Stats

- Feb 2017 - Present
- Worked with 157 students
- 46 Projects



# Students I worked with recently

1	Project Name	Year	Name
2	Home Gym Rental Platform	2023	James Ambat
3			Vinay Bojja
4			Gandhar Kulkarni
5			Soham Kalse
6	Influencer Marketing Platform	2023	Akanksha Gupta
7			Nataliya Karmarkar
8			Ashutosh Malla
9	Business Appointment	2023	Clay Lee
10			Jadon Juang
11			Tora Tran
12	Master Class	2023	Apoorva Parajull
13			Kendrick Tan
14			Owen Peters
15	Menu A/B Test	2023	Alex Kim
16			Sarah Amarragy
17			TJ (Theodore) de Lavega
18	Real Estate CRM	2023	Giacomo Boccuzzi
19			Jacob Warthen
20			Ryan Kennedy
21	Food Tracker	2022	Teddy Juntunen
22			Kate Skardon
23			Matthew Tsang

Project Name	Year	Name
Food Tracker	2022	Teddy Juntunen
		Kate Skardon
		Matthew Tsang
Business Marketplace Aggregator	2022	Palak Jain
		Nilima Jha
		Manas Veena Prasad
Decentralized Storage	2022	Connor Barski
		Matthew (Matt) Kwong
		Ali Gyu
Food Tracking	2022	Leonardo Framba
		Alex Zeng-Yang
Reservation and Party Booking	2022	Shelger Zhang
		Chufeng Qiao
		Shumin Zhang
Food Ordering	2022	Jingke Chen
		Yifan Meng
		Katie Cox
Habit Tracking	2022	Arnau Vila Manes
		Edward Rees
		Kate Walker
		Sophia Ladwiniec



## Projects

- FinSavvy - Comprehensive Personal Finance Management App (Web)
- CollaborateCS - Connecting Students, Professors, and Project Sponsors (Web)
- Food Challenge App (Web or Mobile)
- ConnectFertility - Affordable Sperm Donation Matching App (Web or Mobile)



## Projects

- RavePlan - Your Ultimate Rave Experience Organizer (Web)
- VoteEase - Secure and User-Friendly Online Voting Platform (Web + Mobile)
- TreatTrail - Rediscovering the Traditional Trick-or-Treat Experience (Web + Mobile)
- GiftHarbor - Monthly Surprises for Loved Ones (Web + Mobile)



# FinSavvy - Comprehensive Personal Finance Management App (Web)

## Description:

- FinSavvy is an all-in-one personal finance management app designed to cater to both individuals and businesses
- With features similar to Mint.com, it categorizes bank transactions, provides insightful summaries, assists in budget creation, and generates user-friendly profit and loss statements for CPA review
- This versatile app ensures financial control and planning for users of all backgrounds
- Integrate with Plaid to pull transactions from bank accounts

## Key Features:

- User registration
- Income/Expense Tracking
- Budgeting
- Profit and Loss Statements
- Transaction Categorization
- Saving Goals





# CollaborateCS - Connecting Students, Professors, and Project Sponsors (Web)

## Description:

- CollaborateCS is a specialized application designed to streamline the connection between professors, computer science students, and project sponsors
- This platform facilitates project-based learning by allowing professors to discover and invite sponsors with exciting projects to their classes
- Key features include the ability to create virtual classrooms, invite students and sponsors, edit class details, manage assignments and tasks, and facilitate communication through a robust messaging system.

## Key Features:

- Create profiles for professors, students, and sponsors
- Create classrooms
  - Invite students and sponsors
  - Edit class information
  - Add assignments and tasks
- View list of projects
- Messaging system
- Calendar and notification system
  - Define when sponsors and students meet
- Grading and feedback system





# Food Challenge App (Web or Mobile)

## Description:

- The food challenge app encourages users to create, participate in, and share various food challenges, providing a dynamic platform for tracking progress, fostering community engagement, and spurring friendly competition through leaderboards and user-generated challenges
- With features such as social sharing, personalized profiles, and a robust feedback system, the app aims to make food challenges enjoyable, interactive, and memorable for users.

## Key Features:

- User Authentication
- Discover challenges
  - Restaurants
  - User generated
- Comprehensive profile with stats
- Leaderboard
- Community forum/chat
- Feedback and ratings



# ConnectFertility - Affordable Sperm Donation Matching App (Mobile + Web)

## Description:


- ConnectFertility is a revolutionary app designed to make sperm donation and in vitro fertilization more accessible by connecting individuals aspiring to conceive with donors willing to contribute
- The platform allows donors to provide detailed profiles, enabling those seeking donors to find suitable matches, engage in conversations, and determine compatibility before embarking on their fertility journey
- [How much does IVF cost in 2024?](#)
  - \$15K-\$30K per cycle

## Key Features:

- Sign Up / Login
  - Fill out important information
  - Upload pictures
- Support either swiping or scrolling of profiles
  - Left swipe does not remove the profile from coming up again in the future
- Matches can communicate through the app
- Users can unmatch or report a profile
- Users will pay a monthly fee to stay active in the app



# Round 2




# RavePlan - Your Ultimate Rave Experience Organizer (Web)

## Description:

- RavePlan is the go-to app for avid ravers, offering a seamless platform to plan and enhance their entire rave experience
- Users can discover upcoming events, book hotels, and arrange transportation to and from their accommodations, ensuring a stress-free and unforgettable journey into the world of electronic dance music
- RavePlan aspires to be the ultimate companion for ravers, offering a one-stop solution for planning, booking, and enjoying immersive and electrifying experiences in the world of electronic dance music

## Key Features:

- User authentication
  - Raver profiles
- Rave Discovery
  - Event details
- Hotel Integration
- Transport Services
- Community forum
  - Ravers can connect, share tips and advice
- Review and rating system




# VoteEase - Secure and User-Friendly Online Voting Platform (Web + Mobile)

## Description:

- VoteEase is a cutting-edge online voting website designed to simplify election management, ensuring a seamless experience for both voters and election organizers
- With a focus on user-friendly interface, mobile compatibility, security measures, and expertise in ranked voting techniques
- VoteEase prioritizes privacy and offers a cost-effective, pay-as-you-go pricing model based on the number of voters

## Key Features:

- User authentication
  - Raver profiles
- Rave Discovery
  - Event details
- Hotel Integration
- Transport Services
- Community forum
  - Ravers can connect, share tips and advice
- Review and rating system




# TreatTrail - Rediscovering the Traditional Trick-or-Treat Experience (Web + Mobile)

## Description:

- TreatTrail is a community-focused app designed to revitalize the traditional trick-or-treat experience
- It allows enthusiastic Halloween participants to sign up their houses, indicating their commitment to giving away candy and other snacks
- To ensure safety, the app incorporates a verification process similar to NextDoor, providing parents with confidence in the authenticity of participating households
- TreatTrail aims to bring back the traditional joy of Halloween by creating a digital platform that fosters community engagement and ensures a safe and delightful trick-or-treating experience for children and families

## Key Features:

- Profile creation
- House sign ups
  - \$20 to list their home
- Verification process
- Interactive maps
- Safety guidelines
- Community Form
- Review system
- In app messaging
- Event updates



# GiftHarbor - Monthly Surprises for Loved Ones (Web + Mobile)

## Description:

- GiftHarbor is a thoughtful gifting app designed to make it effortless for individuals, starting with husbands, to surprise their wives or girlfriends with monthly gifts
- Users create profiles, set preferences, and the app automates the gift-buying process, sourcing trending products, flowers, chocolates, and more from Amazon
- The MVP includes the ability to set a monthly spending limit and personalize gifts based on predefined tags or interests.
- Future expansions could allow users to create multiple profiles for various recipients, extending the joy of gifting to friends and family.

## Key Features:

- Profile Creation
  - Setup tags/interests
- Address management
- Monthly spending limit
- Automated purchases
- Notification support
- Personalized messages
- Occasion reminder
  - Anniversary





## Schedule/Goals

- Week 1: Intro & Walkthrough
  - a. Tutorials
  - b. Access to GitHub
- Week 2: Backend Tutorials: Node.js
- Week 3: Frontend Tutorials: React.js or Swift
- Week 4 - 12: Project Tasks
  - a. Bi-weekly tasks will be provided based on the number of students in each team and their experience
  - b. Weekly standups
- Week 13-15:
  - a. Wrapping up key features
  - b. Poster presentations
  - c. Working on extra features if your team is ahead of schedule

## Preferred Tech

- Mobile Developer
  - Swift or Kotlin
  - React Native or Flutter
- Front End Developer
  - React or Vue
  - Material-UI, Ant Design
- Backend End Developer
  - AWS
  - Node.js with Express
  - Postgres Database
- Jamstack SAAS (Advanced)
  - Chakra UI
  - Next.js
  - NestJS
  - Prisma (Node.js and TypeScript ORM)
  - NextAuth.js (Authentication for Next.js)
  - Tailwind CSS



# Why should you pick one of my projects?

You will learn enough to apply for a junior software engineering position

1. Mobile Software Engineer
  - a. National Avg. Salary: \$127,000
2. Node.js (API) Software Engineer
  - a. National Avg. Salary: \$110,000
3. React.js (Web) Software Engineer
  - a. National Avg. Salary: \$120,000
4. Real world experience
5. Opportunity to give feedback on the product and roadmap
6. Sprint workshops
7. Resume Review
8. LinkedIn Recommendation
9. Technical Interview Problems + Mock Interviews
10. No prior experience needed
  - a. You will learn the fundamentals as you go
  - b. Must have a desire to learn
  - c. 1-1 help to debug your code
11. Mentorship beyond USF
  - a. Grad School Recommendations
  - b. Job references
12. Resources
  - a. Tutorials & courses
  - b. Resume
  - c. LinkedIn
13. Connect with Alumni students through our Slack channel
14. Job Referrals
15. Public recognition when we launch!



# Questions?

Feel free to reach out!

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Projects: <https://www.sfdevshop.com/2024-spring.html>