Projects for USF CS Students 2023
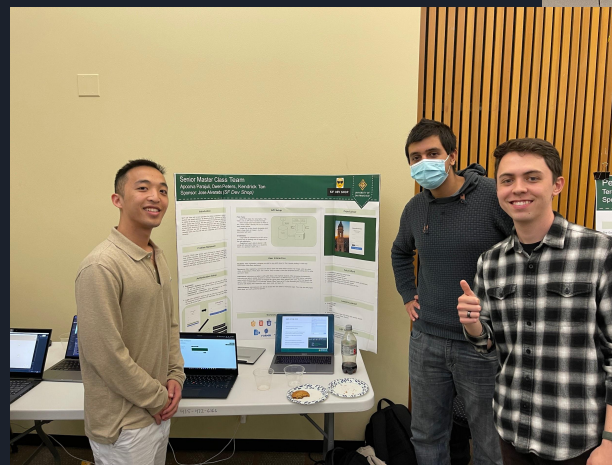
By Jose Alvarado

Introduction
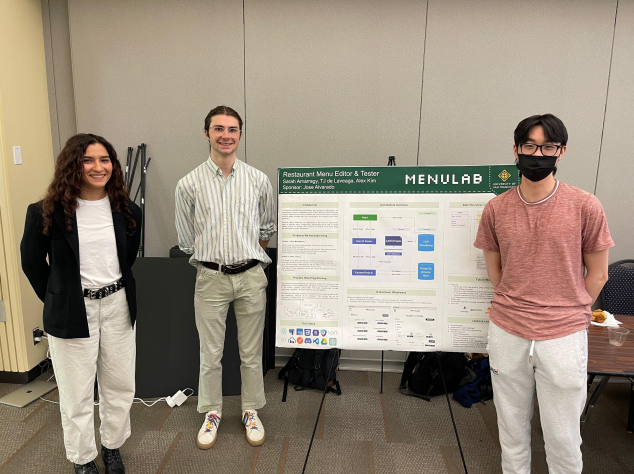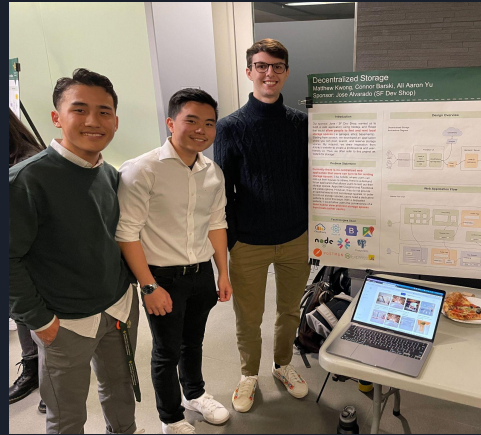

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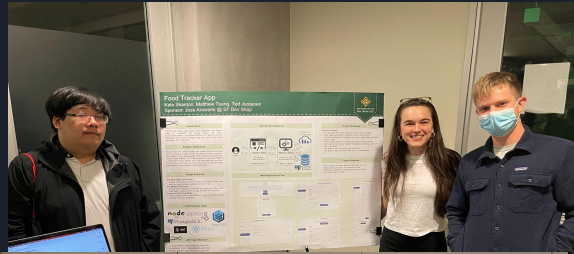2015: M.S. in Computer Science from USF

- 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

- 2017 - Present
- Worked with 150 students
- 44 Projects

Students I worked with recently

Project Name	Year	Name
Business Appointment	2023	Clay Lee
		Jadon Juang
		Tora Tran
Master Class	2023	Apoorva Parajull
		Kendrick Tan
		Owen Peters
Menu A/B Test	2023	Alex Kim
		Sarah Amarragy
		TJ (Theodore) de Lavega
Real Esate CRM	2023	Giacomo Boccuzzi
		Jacob Warthen
		Ryan Kennedy
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

Project Name	Year	Name
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
		Ziyang (tutor)
Work Schedule	2022	Gordon Mai
		Kai Burkholder
		Serena Villanueva
		Haru Khoo (Yi Qinc)
Friend Lotto	2021	Nora Cheng
		Shulin Li
		Yiqi (YiChi) Wei

Projects

- App to rent out home gyms (Web or Mobile)
- Personal Finance Management App (Web)
- Influencer Marketing Platform (Website)

App to rent out home gyms (Web or Mobile)

Project Goal

- Create an application that allows hosts to list their home gym and allow regular users to rent their gym
- Similar to Airbnb but with gyms

Advanced Goal

- Allow hosts to list specific gym equipment like bench press, squat rack, trap bar, etc. and allow renters to search by gym equipment
- Maybe allow users to rent specific equipment

Key Features

- Create profiles for hosts and renters
- Hosts can list their gym
- Search functionality
- Messaging system
- Booking system
  - Calendar integration
- Payment and rating system
- Notifications

Personal Finance Management App (Web)

Project Goal

- Create a comprehensive personal finance solution that caters to both individuals and business
- The app generates profit and loss statements and provides insights into spending habits, helping users optimize their financial decisions
- 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

Influencer Marketing Platform (Website)

Project Goal

- Create a platform that facilitates seamless collaboration between brands and influencers for effective marketing campaigns
- Students will work in teams to design, develop, and launch an influencer marketing platform that connects businesses with relevant influencers, streamlining campaign management and maximizing marketing impact

Key Features

- User authentication and profiles
- Influencer discovery
- Campaign creation
- Messaging system
- Content collaboration
- Performance analytics
- Payment and compensation
- Social media integration
- Dashboard and notifications

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/2023-spring.html

LinkedIn: https://www.linkedin.com/in/josealvarado111/

LinkTree: https://linktr.ee/imjosealvarado