

# Anthony Barragan

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Portfolio: <https://abarragan89.github.io> | GitHub: <https://github.com/Abarragan89>

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## Summary

Full Stack Developer specializing in JavaScript, Node.js, and the MERN stack with experience building scalable web applications from scratch. Strong problem-solver with a passion for implementing efficient, innovative solutions using modern technologies. Expertise in both front-end and back-end development, with a focus on delivering user-friendly, responsive applications.

## Skills

Front-End: JavaScript (ES6+) | TypeScript | React Native | React.js | Next.js | HTML5 | CSS3 | Bootstrap | Tailwind | SASS | Bulma

Back-End: Node.js | Express.js | MongoDB, MySQL | NoSQL | PostgreSQL | Prisma | GraphQL | Python | Flask | Socket.io | NextAuth

Other: REST APIs | JWT | Stripe | Git | PWA | MVC | Responsive Design | Various API implementations

## Projects

### Lunaris

Link: <https://lunaris-finance.herokuapp.com>

GitHub: <https://github.com/Abarragan89/lunar>

Developed a full-stack expense tracker (PWA) using Flask and JavaScript, allowing users to track monthly income and spending. Implemented personalized spending reports and trends for financial insights.

*Tools:* JavaScript | Python, Flask | SQLAlchemy | Jinja2 | Sass | Pycharts.js | Bcrypt

### Cannon Ball Sea

Link: <https://apps.apple.com/us/app/cannon-ball-sea/id6736433554>

GitHub: <https://github.com/Abarragan89/cannon-ball>

My first published game on the App Store. 45 levels of fun! Try to hit the TNT handle and watch it explode. Obstacles stand in your way and things do get challenging. Use points earned to level up your cannon and cannon balls to complete all 45 levels and collect all stars! Created using React Native.

*Tools:* React.js | Node.js | Express.js | GraphQL | Apollo | MongoDB | Mongoose | HTML Canvas | Bcrypt | JSON Web Tokens

### Who Nose That

Link: <https://who-nose-that.com>

GitHub: [https://github.com/Abarragan89/trivia\\_maker](https://github.com/Abarragan89/trivia_maker)

A full-stack, classroom-focused game creation platform designed to support interactive learning for teachers and students. Users can register and create custom game boards with questions and answers in a Jeopardy-style format to promote group collaboration and engagement. Teachers can also convert gameboards into study sets, allowing students to review the content via flashcards through a student portal. The platform includes features for sharing game boards publicly, copying existing game boards to personal libraries, and customizing content to fit classroom needs.

*Tools:* React.js | Node.js | Express.js | GraphQL | Apollo | MongoDB | Mongoose | HTML Canvas | Bcrypt | JSON Web Tokens

## Experience

### **Founder & Full Stack Developer**

#### ***Math Fact Missions – Remote***

**2022 – Present**

Founded and developed a startup focused on helping students memorize math facts through arcade-like games. Built and maintained the entire web application using the MERN stack, with additional integration of 3D avatars and payment functionality.

- Implemented user authentication via JSON Web Tokens (JWT) and automated confirmation emails with NodeMailer.
- Designed and developed a responsive UI/UX using CSS animations and HTML Canvas.
- Integrated Stripe for subscription payments, streamlining user onboarding and payment processes.
- Utilized Three.js to create 3D customizable avatars for users.
- Architected the database models and developed all routes for handling student quizzes, flashcards, and progress tracking.
- **Tools:** TypeScript | Node.js | Next.js | MongoDB | Express.js | Stripe | Nodemailer | JWT | Three.js

### **Web Developer Instructor**

#### ***America On Tech - Los Angeles***

**2024 – Present**

Taught web development fundamentals to high school students, focusing on HTML5, CSS3, JavaScript, Bootstrap, and responsive design. Guided students through hands-on projects to build their own websites and applications, fostering problem-solving skills and creativity. Mentored students on industry best practices, code optimization, and teamwork, preparing them for potential careers in tech.

### **Instructional Teaching Assistant**

#### ***edX Boot Camps LLC – Remote***

**2022 – Present**

Assist students in mastering full stack web development skills, focusing on the MERN stack. Provide one-on-one and group support in topics such as HTML5, CSS3, MySQL, NoSQL, MVC, GitHub, TypeScript, Python, GraphQL, React.js, Object-Oriented Programming, and much more.

### **General Education Teacher**

#### ***Village Charter Academy – Canoga Park, CA***

**2018 – Present**

Develop and implement differentiated lesson plans to meet the needs of diverse learners. Played a vital role in transitioning to distance learning during the COVID-19 pandemic, incorporating new technologies to deliver virtual instruction.

## Education

### **MERN Stack Certificate**

edX Boot Camps LLC (UCLA Extension Program)  
Certificated

### **Bachelor's in Philosophy**

California State University of Northridge – CA  
GPA: 3.85

### **Master's in Education**

Loyola Marymount University - CA  
GPA: 4.0

### **Associate's in Liberal Studies**

Los Angeles Pierce College - CA  
GPA: 3.67