Everett Yan

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EDUCATION

Missouri University of Science and Technology   May 2025
Bachelors of Science in Computer Science   *GPA: 3.3/4.0*

EXPERIENCE

Furrend - Founder   May 2025 - Present
Furrend Group LLC   *Rolla, MO*
- Built a React Native dating app as part of a 6-person development team to address safety, identity, and inclusivity
- Conducted user interviews and market research to refine UX around trust and community expectations
- Integrated Mailjet v3.1 API to automate no-reply email confirmations, improving onboarding for waitlisted users
- Stored waitlist data in **MongoDB** to support future campaign launches and weekly outreach
- Launched waitlist campaign, securing 20+ signups in the first 12 hours and validating initial market interest
- Developed an admin dashboard to monitor waitlist and manage campaigns with Google Analytics integration
- Set up business inboxes using Forwardmail and custom SMTP, enabling branded communication at scale
- Deployed Passbolt on **AWS EC2** with domain-verified user access to streamline secure team credential sharing
- Designed frontend components and user data models for future scalability and easy feature expansion
- Improved **SEO visibility** by configuring sitemap and optimizing pages with Google Search Console and SEO auditing tools

Freelance   December 2024 - Present
Myself   *St. Louis, MO*
- Collaborated directly with clients to define requirements and deliver tailored software solutions
- Deployed responsive frontends using **Astro** and **Vercel** to boost performance and user satisfaction
- Built secure booking systems with integrated calendar views and Stripe payment workflows
- Implemented **Supabase** Auth for secure logins, role-based access, and session control
- Created **AWS-hosted** backend APIs to handle bookings, events, and availability in real time
- Designed and deployed admin dashboards for managing schedules and session approval
- Integrated **webhook** logic to automate calendar updates and maintain data sync

Technical Assistant   November 2023 - Present
UM System   *Rolla, MO*
- Maintained and managed university websites through **T4 CMS**, ensuring accuracy and reliability
- Supported professors and student organizations by customizing **WordPress** sites to meet their goals
- Removed dead links and deprecated pages to maintain site integrity and navigation
- Built and launched Missouri S&T Esports Club site using WordPress, integrating Google Analytics for metrics

Software Engineering Intern   May - Aug. 2024
NISC   *St. Louis, MO*
- Developed **backend Java** applications for billing/reporting systems across 7 client companies
- Refactored **batch** logic for 950+ clients, adding features and resolving production-level bugs
- Wrote optimized **SQL** queries in DBVisualizer to ensure reporting accuracy for 40,000+ users
- Partnered with QA to validate application behavior via internal test portals, reducing error rates
- Contributed to code reviews and technical documentation to enhance onboarding and team consistency
- Built **CI/CD pipelines** to automate building, testing, and deployment to remote client environments
- Coordinated cross-team releases and triage efforts using **Jira** and **Microsoft Teams**
- Used **Bitbucket** for version control and project collaboration, improving delivery timelines

PROJECTS

ARRO | *TypeScript, React, Next.js, Nest.js, Google Maps API*   Feb. - May 2025
- Built a **full-stack React web app** that calculates flight routes between real-world airports, enabling realistic aviation planning
- Implemented **Dijkstra's** and **A* algorithms** to find cost-effective navigation paths, improving route efficiency
- Integrated **Google Maps API** to provide interactive visual feedback on route selection and adjustments
- Developed **REST API** communication between frontend and backend to display aircraft and airport data in real time

ARtist (Placed 1st at TigerVerse 2025) | *TypeScript, Unity, Next.js, Flask, MongoDB, OpenCV, C#* April 2025
- Created an AR "digital stencil" that overlays scalable image guides using Meta Quest 3, revolutionizing stenciling
- Engineered cross-platform pipeline using **Unity XR**, **Flask**, and **Next.js** to deliver immersive AR rendering
- Developed an **OpenCV**-based image processing system using **Canny edge detection** to improve edge clarity and traceability
- Diagnosed and resolved major compatibility issues with QuestLink and Windows 11, ensuring hardware stability for deployment

Mindcraft (Placed 2nd at WashU Devfest 2025) | *TypeScript, Next.js, Hume AI, Gemini, Three.js*   April 2025
- Integrated Hume AI with **WebSockets** to enable real-time emotion detection and adaptive voice-based feedback
- Modeled 3D characters in Blender and rendered them live in-browser using **Three.js** for interactive sessions
- Used **Gemini API** to generate intelligent summaries of user conversations, improving reflection and user recall
- Enabled secure dev access via **ngrok** tunneling to streamline distributed testing and deployment

medIQ (Placed 1st at HackKU 2025) | *Typescript, React-Native, Expo, HAPI FHIR API,*   April 2025
- Integrated HAPI FHIR API to align with the U.S. hospital data standard used by 69%+ of providers
- Designed a refill reminder system that synced with calendars to detect travel plans and suggest medication alerts
- Used **Gemini API** to summarize and simplify **EHR** data for patient-friendly comprehension
- Developed accessible UX with text-to-speech features to support inclusive user interaction

lyrIQ (Placed 1st at TruHacks 2025) | *TypeScript, React Native, Supabase, Suno API, Figma*   March 2025
- Generated educational songs based on user input using **Suno API** to create personalized learning experiences
- Built and styled **React Native components** for playlists and song display to ensure responsive design
- Designed **UI wireframes** and high-fidelity mockups in **Figma**, enhancing clarity and usability
- Implemented **full-stack** playlist functionality to enable saving, browsing, and exploring music by topic

ACTIVITIES

- Google Developer Groups - President and Student Council Representative
- ACM Pickhacks - Development Member, Recruiter, UI/UX Designer
- Esports - Website Manager, Broadcast Manager

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, C++, C#, Rust, SQL, HTML, CSS
Frakeworks & Libraries: React, React Native, Next.js, Expo, Tailwind CSS, Axios, Framer Motion, Three.js, Flask, OpenCV, Scikit-learn, NumPy
Developer Tools: Git, GitHub, GitHub Actions, Docker, VS Code, Visual Studio, Postman, Figma
Platforms & Services: AWS (EC2, S3), Firebase, Supabase, MongoDB, MySQL, Forwardmail, Mailjet
Testing & DevOps: CI/CD, Jira, Bitbucket, Google Search Console, SEO tools
Other: Unity XR, Blender, ngrok, Google Maps API, HAPI FHIR API