

ANDREW MILLER

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SKILLS

Languages: TypeScript, JavaScript, SQL, Python, Go, Java, C++, Bash, HTML, CSS

Frameworks: React, Node, Vue.js, Spring, Next.js, Express.js, FastAPI, Django, PyTorch, TensorFlow

Infrastructure: AWS, MongoDB, PostgreSQL, Supabase, Firebase, Cloudflare, Docker

WORK EXPERIENCE

Magic Hour (YC W24)

Jun 2025 – Present

Software Engineer

Remote

- Engineered and launched a new AI-powered image editing feature using React, Next.js, and TypeScript, impacting over **2.5 million users** and enhancing user engagement by 25%
- Implemented and launched Face Swap V2, used by over **400k monthly active users**, with multi-frame face detection, image and video support, and multi-face swap support
- Accelerated development cycles by 30% through designing a reusable, modular product page template, enabling rapid rollout of new features including image-to-video, video-to-video, and text-to-video tools
- Redesigned critical user flows by implementing keyboard submission shortcuts, chaining actions, and an A/B tested signup/login flow, boosting user retentions and conversions

Ultra (YC W24)

Mar 2025 – May 2025

Software Engineering Intern

Remote

- Re-architected global state management by transitioning from Context API to Zustand with Immer, streamlining state updates and improving performance, leading to over 35% fewer re-renders
- Decreased college search API latency by 60% (12s → 4.4s) by implementing in-memory caching, data compression, and efficient queries
- Migrated over 100 backend services to a new authentication system, streamlining user management and boosting security compliance across all services
- Deployed 15+ core features leveraging the shadcn/ui component library, creating cohesive user experiences, and improving development velocity by 30%

Research To Empower

Aug 2024 – Jan 2025

Software Engineering Intern

Remote

- Contributed to a cross-functional team effort to build student-facing mobile app interfaces, translating Figma designs into high-quality code with React Native and Expo to improve user navigation and overall usability
- Developed and deployed serverless functions (Firebase Functions) to manage AI chatbot data, ensuring secure and low-latency storage and retrieval via Firestore
- Created and maintained a single source of truth for team documentation, streamlining onboarding and knowledge sharing, resulting in a 35% reduction in onboarding time for new developers

PROJECTS

Snappit | AWS S3, TypeScript, Next.js, Supabase, PostgreSQL, Prisma, Gemini, REST APIs

Jan 2025

- Built a caloric estimator that accurately estimates food calories and macronutrients when given an image
- Leveraged the Gemini-1.5-flash model to read inline base64 image data and retrieve nutritional estimates
- Finetuned LLM calls for reliable and 95% accurate predictions with packaged foods
- Presented findings alongside our team to a YC founder, **winning 2nd place in the TeenTechSF Civic Hackathon**

Predictoro | Python, Flask, scikit-learn, Firebase, BS4, Pandas

Dec 2023

- Improved RF model accuracy by 18% (from 58% to 76%), using GridSearchCV and RandomizedSearchCV to tune hyperparameter values, resulting in more reliable predictions
- Developed a Flask backend to serve a pre-trained RF machine learning model, integrating it with Firebase Realtime DB for real-time CRUD operations, resulting in seamless data synchronization and 30% decrease in server memory usage
- Engineered a web scraping pipeline using BS4 and Pandas to extract and clean data from ufcstats.com, processing it into a structured CSV dataset