Alex Ross

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EDUCATION

San Jose State University   Dec. 2025
Bachelor of Science in Software Engineering — 3.6 GPA   *San Jose, CA*

WORK EXPERIENCE

Software Engineer   Jun. 2024 – Aug. 2025
Cinefind | Python, Selenium, TypeScript, Next.js, React.js, Node.js, MongoDB, Tailwind CSS   *Remote*
- Re-architected Cinefind into a production-grade web platform which scaling to thousands of monthly users and earned financial and staffing support from LA-based accelerator programs
- Built and maintained backend services to aggregate free movie screenings and deliver real-time email alerts
- Developed full-stack web architecture, implementing secure authentication and subscription purchasing flows
- Implemented one-click notifications, user watchlists, and end-to-end screening booking flows for indie filmmakers
- Enabled one-click auto-RSVP feature from email alerts to automatically secure a user's spot in limited screenings
- Integrated Stripe webhooks for subscription payments, updates, cancellations, and automated user notifications
- Owned end-to-end feature development in an Agile environment, iterating on evolving product goals and needs
- Reviewed and merged pull requests as the final release checkpoint, testing features and verifying system stability

PROJECTS

Spotter – Mobile Application
TypeScript, React Native, Expo, Node.js, PostgreSQL, OpenAI, Redis [App Store]
- Released and maintained Spotter on the iOS App Store — a detail-oriented weightlifting app offering complete user control over workout structure, custom exercises, and performance analytics for personalized training
- Engineered a full-stack architecture combining a modern UI, efficient APIs, relational data persistence, and caching, validated through performance testing to deliver stable user interactions
- Designed and delivered a secure authentication system with custom JWTs supporting Apple and Google sign-in, including cross-provider account linking for unified user profiles
- Introduced AI-powered exercise classification to automatically assign muscle groups to user-created exercises
- Shipped iterative feature updates aligned with native iOS platform capabilities and design standards

Twitter/X Bot Detector
TypeScript, Next.js, React.js, Python, Flask, Scikit-learn, Pandas [Code]
- Engineered an end-to-end machine learning pipeline achieving 80% test accuracy on a 1M-user Twitter/X dataset, documented in Jupyter for team reproducibility and model transparency
- Curated raw user data, applied feature selection, and prepared inputs to maximize model training effectiveness
- Evaluated model performance across precision, recall, and thresholds, improving bot detection reliability by 15%
- Enabled model inference through an API and web app for live user lookup and classification with probabilities

Vinyl Bot
Python, AWS, Cron, Jinja [Code]
- Automated detection of new vinyl record releases, delivering real-time email alerts to help users secure new releases
- Parsed user wantlists via the Discogs API to automatically track desired records and trigger alerts
- Scanned r/vinylreleases via the Reddit API to analyze posts in real-time, giving users instant access to releases
- Deployed on AWS EC2 and scheduled runs via cron, persisting JSON state to prevent duplicate reads and alerts

Spotlefy
TypeScript, Next.js, React.js, Tailwind CSS [Code]
- Launched and designed a web-based music guessing game using the Spotify API, allowing users to guess songs from any playlist or artist catalog via progressively longer audio snippets

SKILLS

Languages: JavaScript, TypeScript, Python, Java, Swift, C, C++, SQL, HTML, CSS
Frameworks/Libraries: Node.js, Express.js, React.js, Next.js, React Native, Expo, Flask, Selenium
Database Technologies: MongoDB, MySQL, PostgreSQL, GraphQL, Redis (caching), Neon, Prisma, Drizzle
Tools: Git, GitHub, AWS (EC2, S3, RDS), Postman, Jupyter Notebook, Figma, Vercel, Mailgun, Stripe