

# Alex Ross

[linkedin.com/in/alex-ross-32b278236](https://www.linkedin.com/in/alex-ross-32b278236) | [github.com/aross2010](https://github.com/aross2010) | [adross1027@gmail.com](mailto:adross1027@gmail.com) | [aross.app](https://aross.app)

## EDUCATION

### San Jose State University

*Bachelor of Science in Software Engineering | 3.76 GPA*

Dec. 2025

*San Jose, CA*

## WORK EXPERIENCE

### Software Engineer

Jun. 2024 - present

*Cinefind | Python, Typescript, Next.js, React.js, MongoDB, Prisma, Tailwind CSS*

- Developed the core backend system using Python, Mailgun, and web scraping tools to automatically find free screenings across the U.S. and send real-time email alerts to thousands of users
- Led end-to-end development of Cinefind's full-stack web application using Next.js, significantly improving performance by 55% and SEO visibility by 33%
- Designed and optimized backend architecture with MongoDB and Prisma to power the web app and automate screening data ingestion — improving query efficiency by 20% and cutting storage use by 25%
- Integrated Stripe webhooks for subscription handling, ensuring secure payments and automated revenue flow
- Collaborated with an Agile team to apply user feedback, improving product quality and user experience

## PROJECTS

### Twitter/X Bot Detector

*Python, Flask, Scikit-learn, Pandas* [Code]

- Built a machine learning pipeline that achieved 80% test accuracy on a benchmark dataset of 1M Twitter/X users, using Jupyter to document the process for team collaboration and reproducibility
- Curated raw data, applied feature selection, and prepared inputs to maximize model training effectiveness
- Refined a Random Forest classifier with performance tuning and SHAP, boosting bot recall by 15%
- Implemented a Flask API for real-time bot classification with confidence scores and feature explanations

### Vinyl Bot

*Python, Cron, Jinja* [Code]

- Automated record release tracking by scheduling Python scripts with cron jobs, using Jinja to format email alerts with details of wantlist records in real time
- Accessed and parsed user want-lists via the Discogs API to identify and prioritize desired records without requiring manual input, enabling seamless tracking of user interests
- Connected to the Reddit API to analyze r/vinylreleases posts every minute, giving users instant access to releases

### Spotlefy

*TypeScript, Next.js, React.js, Tailwind CSS* [Website] [Code]

- Launched a web app using the Spotify API that lets users play a Heardle-style game by guessing songs—drawn from their own playlists, public playlists, or artist catalogs—using progressively longer audio snippets
- Incorporated an interactive popup to display all-time gameplay statistics, enhancing user insight and experience

### Split

*TypeScript, Next.js, React.js, MongoDB, Prisma Tailwind CSS* [Website] [Code]

- Created a full-stack workout tracking web app featuring custom logging and dynamic progress visualizations

## ADDITIONAL EXPERIENCE

### Lead Basketball Instructor

*Lifetime Activities*

Jul. 2024 - present

*Cupertino, CA*

- Directed youth basketball programs focused on developing player skills and strengthening team collaboration

## SKILLS

**Languages:** JavaScript, TypeScript, Python, Java, C, SQL, HTML, CSS

**Frameworks/Libraries:** Node.js, Express.js, Next.js, React.js, React Native, Flask

**Database Technologies:** MongoDB, MySQL, PostgreSQL, Neon, Prisma, Drizzle

**Tools:** Git, GitHub, Postman, Jupyter Notebook, Figma, Vercel, Mailgun, Stripe