

# Alex Ross

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## EDUCATION

### San Jose State University

Bachelor of Science in Software Engineering, 3.7/4.0 GPA

San Jose, CA

Dec. 2025 (expected)

## SKILLS

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

**JavaScript Frameworks/Libraries:** Node.js, Express.js, Next.js, React.js, React Native, Tailwind CSS

**Python/ML Libraries:** Flask, Scikit-learn, Pandas, SHAP, OpenCV, Transformers, Joblib

**Database Technologies:** MongoDB, MySQL, Mongoose, Prisma

**Developer Tools:** Git, GitHub, Jupyter Notebook, Figma, Postman, VS Code, Vercel

## WORK EXPERIENCE

### Software Engineer - Full Stack Development

Jun. 2024 - present

*Cinefind*

- Developed an automated online platform connecting 750+ users to free local movie screenings
- Led full-stack redevelopment of company website using Next.js, boosting performance by 55% and SEO by 33%
- Designed MongoDB models with Prisma, improving query efficiency by 20% and reducing storage usage by 25%
- Collaborated within an Agile team to incorporate user feedback, delivering iterative software enhancements

## PROJECTS

### Twitter/X Bot Detector - ML Engineer

*Python, Flask, Scikit-learn, Pandas, SHAP* [\[Code\]](#)

- Engineered a machine learning pipeline that identified 80% of Twitter/X bots using a 1M-user benchmark dataset
- Collected data, performed feature selection, and preprocessed it to ensure high-quality input for model training
- Fine-tuned a Random Forest classifier using performance analysis and SHAP, improving bot recall by 15%
- Created a Flask API to use the trained model for real-time bot detection and feature explanation

### Vinyl Bot

*Python, Cron, Jinja* [\[Code\]](#)

- Automated Python scripts with cron jobs to receive real-time email notifications for desired vinyl record releases
- Leveraged the Discogs API to retrieve and analyze user want-lists, streamlining the identification of desired records
- Integrated the Reddit API with r/vinylreleases to analyze 100+ record releases daily, ensuring timely notifications

### Spotlefy

*TypeScript, Next.js, React.js, Tailwind CSS* [\[Website\]](#) [\[Code\]](#)

- Built a web application with Spotify API integration, allowing users to create and play personalized Heardle games
- Incorporated a user-accessible popup to display all-time game statistics, enhancing user insights and experience

### Split

*TypeScript, Next.js, React.js, MongoDB, Prisma, Tailwind CSS* [\[Website\]](#) [\[Code\]](#)

- Implemented a web application for users to log workouts and track progress through dynamic data visualizations
- Streamlined login efficiency and security by integrating Google authentication with NextAuth.js

## LEADERSHIP & OTHER EXPERIENCE

### Lead Basketball Instructor

Jul. 2024 - present

*Lifetime Activities*

Cupertino, CA

- Orchestrated basketball skills programs for children and teens, achieving 25% enrollment growth per eight weeks

### Operations Manager

Mar. 2022 - Sep. 2022

*AMC Theatres*

San Jose, CA

- Managed HR functions such as recruiting, payroll, training, and optimizing team schedules to save \$10K+ quarterly