

Eli Bales

Full-Stack Software Engineer

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Skills

Languages: Python, Javascript, React.js, Node.js, C++, HTML, CSS, JSON

Tools and Libraries: AJAX, Git, RESTful APIs, PostgreSQL, PyTorch, Pandas, Linux, Express

Foundations: Data Structures, OOP, Algorithms, Run-time Complexity

Projects

Curate. | [GitHub](#) | [Link](#)

A full stack application where users curate their own art gallery and share art from the Met Museum with friends.

- Combined **React.js**, **Express**, and **PostgreSQL** to architect a standalone art sharing user experience.
- Eliminated unnecessary database queries by utilizing **JSON** and efficient **data structure** storage, improving the applications responsiveness **client-side** while reducing requests to the **server** ten-fold.
- Implemented and refined both an art favoriting system and user following capabilities, creating improved user interactivity and retention.

Twitter Sentiment Analysis System | [GitHub](#) | [Link](#)

A linguistic featurizer and machine-learning RoBERTa model that accurately analyzes user sentiment from tweets.

- Tested multiple neural optimizers and **language models** to determine the best approach for improved **sentiment detection** on real-world data.
- Fine-tuned the base model using current optimization approaches to achieve 95.38% accuracy and a 0.96 F1 on unseen test data, breaking into the top-ten scores on the shared task competition.
- Maintained **proper version control** through effective task delegation and peer collaboration.

Footy Tracker | [GitHub](#)

A web app that provides up-to-date information across multiple of the world's top soccer leagues.

- Utilized **AJAX** to validate **RESTful API** calls and gather necessary information to designate the correct **HTTP requests** for user action.
- Stored data efficiently on the browser to reduce latency and minimize costly **API calls**, reducing original API requests by two-fold.

Leadership

Executive Director of Grants and Itemized Gifts

July 2019 - September 2020

Committee Member

Oct 2017 - May 2021

USC Troy Camp, Los Angeles, CA

- Elected by peers to collaborate with other Directors on organization-wide projects and communicate directly with grantor employees to maintain a beneficial relationship for both parties.
- Lead a multi-faceted group of volunteers focused on applying to and maintaining grants, bringing in over \$40,000 in grant money and donations for a non-profit.

Education

LearningFuze Coding Bootcamp, Los Angeles

Aug 2023

Intensive bootcamp over 14 weeks of +60 hours each week for Full-Stack Web Development

University of Washington, Seattle

Expected Dec 2023

Master of Science, Computational Linguistics

University of Southern California, Los Angeles

May 2021

Bachelor of Science, Physics/Computer Science