

Tony J Huang

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EXPERIENCE

Stripe

San Francisco, CA

Software Engineer (Full Stack)

Apr 2024 - Feb 2025

React, GraphQL, REST, Ruby, Mongo, SQL, Kafka, gRPC, Splunk, Prometheus + Grafana, Puppeteer,

- Leveraged LLM to extract, generate, and classify data from user-provided websites, automating the prefill of forms and enhancing overall efficiency and user experience.
- Conducted A/B tests to experiment with new features, optimizing user engagement and product performance based on data-driven insights.
- Refined KYC information collection processes in multiple countries, improving compliance and user experience.
- Resolved a nasty critical bug that allowed unauthorized data changes, ensuring data integrity and compliance.

Flexport

San Francisco, CA

Software Engineer (Full Stack)

Jul 2021 - Feb 2024

NextJS + React, GraphQL + Relay, Ruby Rails, Sidekiq Job Queue, Postgres, AWS S3, Kotlin Spring, gRPC, Datadog, Snowflake

- Automated workflows using LLM to extract unstructured data from emails, streamlining data processing and improving efficiency.
- Improved query response times by implementing pagination, optimizing N+1 queries, and utilizing lazy loading for less frequently accessed data, resulting in faster and more efficient data retrieval.
- Developed a UI to preview documents alongside extracted data and superimposed OCR bounding polygons, enhancing document review and data accuracy.
- Built a dynamic form to capture human data corrections based on predefined document schemas, streamlining data validation.
- Implemented audit trail logging for document access, permissions, and metadata modifications, ensuring transparency and improving security compliance.
- Designed a user-configurable, rule-based workflow to automatically generate documents, streamlining document creation and enhancing process automation.
- Developed observability dashboards to monitor and report on system performance, providing real-time insights and facilitating proactive issue resolution.

J.P. Morgan Chase

San Francisco, CA

Software Engineer (Frontend)

Mar 2019 - Jul 2021

- Optimized application performance and user experience by efficiently handling and caching multiple asynchronous requests, reducing load times and enhancing responsiveness.
- Developed WCAG-compliant user interface features for Chase.com, improving accessibility and user experience.

Liberty Mutual Insurance

Boston, MA

Data Scientist

Jul 2014 - Aug 2017

- Developed interactive heat maps for catastrophe loss analysis, enabling intuitive data visualization and insights
- Performed regional segmentation analysis using hierarchical clustering and K-means algorithms to uncover patterns and drive data-informed decisions.
- Utilized geospatial smoothing techniques to reduce abrupt step-wise grouping near geographical boundaries, ensuring more continuous and accurate regional analysis.
- Automated report generation and business processes, improving efficiency and accuracy.

PROJECTS

Atari Breakout Game with Hand Waving Controls

[live](#) | [repo](#)

TensorFlow, JavaScript, HTML5, Canvas, CSS3, Webpack

- Trained a ML model to control the Classic Atari Breakout game using hand gestures, predicting multiclass classifications from webcam frames for real-time interaction.

Kilogram

[repo](#)

Ruby on Rails, BCrypt, AWS S3, ReactJS, Redux, Heroku, jQuery, Webpack

- Built a full-stack Instagram clone with features including image posting, user following, and nested commenting.

TeslaCam Video Player

[repo](#)

Electron, ExpressJS, ReactJS, NodeJS

- Created an application for synchronized viewing of camera footage from multiple angles.

EDUCATION

Boston University, College of Engineering

Boston, MA

Master of Science, Electrical Engineering; GPA 4.0

Attended 2017 (Dropped)

Bentley University

Waltham, MA

Bachelor of Science, Actuarial Science; magna cum laude; Major GPA: 4.0

May 2014