Mariel Pacada

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Experience

Software Engineer – Forio   November 2023 – present
San Francisco, CA

- Engineered enterprise-level custom simulations in TypeScript and Remix for Fortune 500 clients including Amazon, Johnson & Johnson, and Salesforce, generating upwards of **half a million dollars** in revenue
- Implemented performance improvements to ensure continuous operation of legacy simulations licensed to Harvard Business Publishing and MIT Sloan, supporting students at more than **4k institutions** worldwide
- Executed end-to-end codebase modernization of flagship computational platform Epicenter Dashboard from HTML/CSS to Remix/Tailwind, accelerating development cycles and enhancing user experience
- Spearheaded redesign and development of homepage serving **200k monthly visitors**, collaborating directly with marketing agency to implement conversion-focused improvements through strategic A/B testing

Fullstack Software Engineer Intern – Ro   June 2022 – August 2022
New York, NY

- Launched search functionality on homepage visited by **700k+ daily visitors** using React + Remix + Django, elevating site navigation and increasing visibility to company's healthcare products and services
- Enhanced UI and screen reader compatibility for online medical consultation flow used by **500k+ patients**

Fullstack Software Engineer Intern – Genospace   January 2022 – May 2022
Boston, MA

- Developed new personalized medicine feature for over **30 million patients** that automatically matches each individual to potential cancer treatments based on patient data and clinical trial data from the NIH
- Optimized bookmarking and curation UX for analytics dashboard used by **45k+ physicians and researchers**
- Contributed to documentation of entire product lifecycle, from technical and design proposals to testing plans

Frontend Software Engineer Intern – SmugMug   June 2021 – August 2021
Mountain View, CA

- Enabled wider range of payments in checkout flow for **50k+ daily customers** by integrating with Stripe API
- Streamlined photo query, selection, and organization workflows in photo management experience for more than **1 million paying subscribers** using React + Redux

Projects

Melodate
TypeScript, Remix, Prisma

- Developed and launched web app that helps the user discover new artists through a dating-app-esque experience
- Utilized Spotify API to provide each user with a unique experience based on their current music interests
- Conducted UX research throughout development to improve customization features of the application

Learn Baybayin
TensorFlow.js, Python, JavaScript, HTML, CSS

- Achieved **94% accuracy** using a CNN model to classify characters from a pre-colonial written Philippine script
- Built user interface that takes handwritten user input and gives feedback based on predictions of CNN model

Mental Health in the Tech Industry
R, dplyr, tidyr

- Created data visualizations to reveal relationships between mental health and tech industry workplace conditions
- Trained and tested with machine learning models (Naive Bayes and decision trees) to detect predictor variables

Education

Brown University • Providence, RI   September 2017 – December 2020
Completed 3 years toward B.S. Computer Science

- Related Coursework: Data Structures and Algorithms, Object-Oriented Programming, Data Science, User Interface and User Experience Design, Biostatistics and Data Analysis, Statistical Inference, Multivariable Calculus, Linear Algebra

Skills

- **Languages:** JavaScript, Python, Java, Groovy, HTML, CSS, R, SQL
- **Frameworks and Tools:** TypeScript, React, Redux, Remix, Node, Vue, Django, MongoDB, Elasticsearch, Git
- **Design:** Figma, Adobe XD, Balsamiq, Adobe Illustrator