

MARIEL PACADA

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EDUCATION

Brown University • Providence, RI

September 2017 – present

Bachelor of Science, Computer Science

Bachelor of Science, Statistics

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

PROJECTS

Melodate

Node.js, Pug, CSS

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

Learn Baybayin

TensorFlow.js, Python, JavaScript, HTML, CSS

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

Mental Health in the Tech Industry

R, dplyr, tidyr

- Create visualizations to reveal relationships between mental health and tech industry workplace conditions
- Train and test with machine learning models (e.g. Naïve Bayes and decision trees) to detect predictor variables

EXPERIENCE

Software Engineering Intern – SmugMug

June 2021 – August 2021

Mountain View, CA

- Utilize React + Redux to improve and deliver features in customer checkout workflow and photo management
- Maintain front-end and back-end functionality of company's photo print customer interface, Commerce Lightbox
- Collaborate with senior engineers on scrum Photo Business team in all stages of Agile iterative project workflow

Data Analyst Intern – Kaiyo

May 2020 – July 2020

New York, NY

- Apply stochastic models (e.g. Markov and Gaussian processes) to predict customer activity on e-commerce site
- Analyze cart-add and bookmark activity data to present new pricing and marketing strategies to C-suite
- Employ aggregation techniques to estimate and track in real time the company's carbon emissions and offsets

Data Science Workshop Coordinator – Brown University

September 2019 – May 2020

Providence, RI

- Coordinate and manage Brown University Datathon, the university's annual data hacking competition
- Develop and lead workshops on statistical programming languages and libraries such as R, SQL, pandas, etc.

Private Instructor – Perfect Score Academy

May 2019 – August 2019

Cypress, CA

- Mentor high school students on projects in object-oriented programming, web development, and data analysis
- Build dashboard with interactive data visualizations of student performance for academy director and parents
- Develop personalized curriculum for daily private and small group SAT, ACT, and AP Computer Science classes

Research Assistant – Brown University

September 2017 – May 2018

Providence, RI

- Build web-scraping program to gather linguistic research data throughout social and news-based media
- Implement similarity matrices to quantify the naturalness of Filipino linguistic units in hypothetical situations

KEYWORDS

- **Technical Skills:** *Languages:* JavaScript, Java, Python, HTML + CSS, Swift, R, SQL, PHP, Bash ||| *Frameworks and Libraries:* React + Redux, Express + Node.js, Mocha.js, LaunchDarkly, jQuery, Pug, Bootstrap, Mongoose, JUnit, NumPy, pandas, Matplotlib, dplyr, tidyr ||| *Design:* Adobe XD, Balsamiq, Figma, Adobe Illustrator
- **Miscellaneous:** QuestBridge Scholar, High School Valedictorian, National Honor Society President, Filipino Alliance President, California Scholarship Federation Sealbearer, Pomona College Academy for Youth Success Scholar, Classically-trained violinist