

# MARIEL PACADA

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## EDUCATION

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**Brown University** • Providence, RI  
*Bachelor of Science, Computer Science*  
*Bachelor of Science, Statistics*

September 2017 – May 2022

- 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

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### 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

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**Data Analyst Intern** – Kaiyo  
New York, NY

May 2020 – July 2020

- 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  
Providence, RI

September 2019 – May 2020

- 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  
Cypress, CA

May 2019 – August 2019

- 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 Advanced Placement classes

**Research Assistant** – Brown University  
Providence, RI

September 2017 – May 2018

- 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

**Student Intern** – Pomona College  
Claremont, CA

September 2014 – July 2016

- Perform sentiment analysis on web-scraped lyrics to measure activist attitudes within contemporary music
- Design a summer program curriculum and organize excursions centered around critical inquiry and research

## KEYWORDS

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- **Technical Skills:** *Languages:* Java, Python, JavaScript, HTML + CSS, Swift, R, SQL, Bash ||| *Frameworks and Libraries:* Express + Node.js, jQuery, Mongoose, Pug, Bootstrap, React, 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