

# 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: Statistical Inference, Linear Algebra, Introduction to Data Science, Introduction to Object-Oriented Programming, Biostatistics and Data Analysis, Data Structures and Algorithms

## PROJECTS

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### Mental Health in the Tech Industry

*R, R Markdown*

- Create visualizations to reveal relationships between mental health and tech industry workplace conditions
- Employ machine learning models (e.g. Naive Bayes and decision trees) to detect predictor variables
- Utilize R's dplyr and tidyr packages for efficient manipulation of raw survey data

### Othello

*Java*

- Implement Othello board game with computer player powered by artificial intelligence Minimax algorithm
- Develop graphical user interface using JavaFX library

### React Documentation

*JavaScript, HTML, CSS, Markdown*

- Contribute to React framework open source project on GitHub
- Utilize Gatsby library to build static sites, translate React documentation into Filipino

## EXPERIENCE

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**Data Science Workshop Coordinator** – Brown University  
Providence, RI

September 2019 – Present

- 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 Tutor** – Perfect Score Academy  
Cypress, CA

May 2019 – August 2019

- Develop personalized curriculum for daily private and small group SAT, ACT, and Advanced Placement classes
- Mentored high school students on basic projects in object-oriented programming and data analysis
- Created data visualizations for student performance and reported to center director and parents

**Filipino Alliance Financial Chair** – Brown University  
Providence, RI

September 2017 – Present

- Draft monthly financial reports, organize fundraisers, manage all financial documents filed to the university
- Led workshops regarding the need for equitable disaggregation of Asian-American data within institutions

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

September 2017 – May 2018

- Serve as a language consultant for a linguistics research project on the Filipino language
- Scrape and clean linguistic data throughout news and web-based media as research evidence

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

September 2014 – July 2016

- Complete research on contemporary music by conducting sentiment analysis on web-scraped data of song lyrics
- Designed a summer program curriculum and organized excursions centered around critical inquiry and research

## KEYWORDS

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- **Technical Skills:** Java, Python, R, SQL, Excel, MATLAB, HTML + CSS, Markdown, JavaScript, Git Bash, React, Linux, WordPress, Adobe Photoshop, Adobe Illustrator
- **Miscellaneous:** QuestBridge Scholar, High School Valedictorian, National Honor Society President, California Scholarship Federation Sealbearer, Pomona College Academy for Youth Success Scholar