# RONNIE JAMES PANALIGAN

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## EMPLOYMENT

**Software Engineer** **Macy's TECH** **August 2018 - Present**

- Assist in migrating the recommendations model from on prem services to Google Cloud Platform by replacing HBase dependencies for PreditionIO to Bigtable and integrate Pub/sub architecture to stream real time events from Macy's UI to Bigtable.
- Implemented Bigtable integration by creating a client to connect to Bigtable to read and write events or data to Bigtable which is currently used to get recent user events to pass to the PredictionIO and Elasticsearch engine. Written in Scala.
- Utilized Apache Spark to create an argo workflow to read event files from Google Storage to perform bulk inserts into Bigtable to be used as historical data for user recommendations.
- Ensure the performance of the customized PIO Bigtable engine is able to handle up to 150 read and write requests to Bigtable and respond in < 200 ms and created gatling scripts to simulate real time scenarios.
- Collaborated with engineers on the Enterprise Machine Learning Platform team to continuously update and fix bugs for the platform's frontend using React and Redux while utilizing Cypress to ensure components work and example scenarios work properly.
- Additionally, worked on chatbot platform POC by establishing connections to mySQL backend to automatically extract data to create RASA training files.
- Led several POC's including exploring a new recommendations model using Facebook's Starspace to create embeddings for different types of recommendations and designed a new UI/UX for chatbot platform based off feedback from Macy's engineers.
- Participated in the new grad program and collaborated with other recent grads to develop a POC using C#, Unity and the Oculus to design a virtual fitting room to easily see and explore Macy's products.

**Solar Systems Data Analyst** **University of California, Merced** **November 2017 – May 2018**

- Collaborated with a professor to analyze the degradation rates of solar electricity by using Python.
- Created scripts to automatically download sheets off the EIA website and extract data to main datasheets.

**Data Analyst** **University of California, Merced** **November 2017 – May 2018**

- Utilized Python and JMP to help professor analyze data collected from experiments by evaluating metabolomics data using multivariate statistics and create graphs that visualizes the effects of GLP-1 on elephant seals.

## EDUCATION

**Merced, CA** **University of California Merced** **August 2014 – May 2018**

- B.S. in Computer Science and Engineering
- Relevant Coursework: Algorithms and Data Structures, Operating Systems, Databases, Intro to Artificial Intelligence and Machine Learning, Computer Graphics, Software Engineering

## PROJECTS

- **Class Autoscheduler** (2018). Designed an auto class enroller which utilizes queues to automatically enroll students to classes that are already booked. Used React, Node and Heroku hosting.
- **Google T-Rex Clone** (2017) – Recreated the Google T-Rex game using C++ and OpenGL.

## Languages and Technologies

- Java, Python, Scala, C++, JavaScript (Node.js), PHP, HTML/CSS
- Spring Boot, Google Cloud Platform, Kubernetes, Argo, ElasticSearch, SQL, Docker, MongoDB, React, Redux