Luigi Magdamit

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EDUCATION

University of California Los Angeles   **August 2020 - December 2022**
Bachelor of Science (B.S) Degree in Statistics, GPA: 3.2   *Los Angeles, CA*
Relevant Coursework: Computation & Optimization, Web Development & GIS, Practice of Statistical Consulting, Data Analysis & Regression, Statistical Models & Data Mining, Computational Statistics, Geospatial Analysis

Norco College   **August 2018 - June 2020**
Associate of Science Degree in Computer Science & Mathematics, GPA: 4.0   *Norco, CA*
Relevant Coursework: Data Structures & Algorithms, Object Oriented Programming, Programming Concepts & Methodologies, Advanced Objects, Java Programming, C++ Programming

SKILLS & INTERESTS

- **Languages:** R (fluent), Python (fluent), Rust (proficient), Java (proficient), JavaScript (proficient), C++ (proficient), C# (prior experience), HTML & CSS (fluent), SQL (prior experience)
- **Libraries:** NumPy, SciKit-Learn, Keras, React.js, React Native
- **Machine Learning:** Linear Regression, Logistic Regression, Decision Forests, Data Visualization, Neural Networks, Natural Language Processing
- **Data Science Skills:** Tableau, Excel, Ad hoc analysis, dashboarding, relational database, business intelligence

RELEVANT PROJECTS

Ray Tracing 3D Graphics Engine
- Developed a simple ray tracing algorithm in Rust to generate photorealistic 3D images using concepts in applying linear algebra to simulate objects in 3D space
- Designed a virtual 3D scene using geometric primitives and material properties, and simulated the behavior of light rays as they interacted with objects in the scene

ContactCloud - CLI Video Conferencing Phone Book & Appointment Manager
- Developed an appointment reminder application in Rust with a Phonebook CLI connected to Raspberry Pi web server, yielding optimization in personal workflow of 40%.
- Configured cross-compiler library for Rust programming language with minimal coding complexities resulting in 15% faster development timeline.

Zillow Housing Prices - Advanced Data Science & Visualization Project
- Conducted exploratory data analysis on real estate datasets from Zillow & using census data, generating insights to identify trends in housing prices.
- Leveraged R programming language for the development of predictive analytics models that resulted in an improvement in forecasting capabilities.

Athenaeum React Native Cross-Platform Mobile Application
- Developed a mobile application from concept to launch, leveraging JavaScript, React Native, Google Firebase and React-Redux technologies.
- Enhanced user experience by creating custom UI/UX designs for both iOS & Android platforms; enabling users to access library content with increased ease

COVID-19 & Hate Crime & Crisis Support Network Web Application
- Developed interactive mapping website with JavaScript, HTML, CSS & Leaflet to document Asian-American experiences during COVID-19 pandemic in UCLA community.
- Integrated Google Sheets API into web design for efficient data management & storage of survey responses from participants.

WORK EXPERIENCE

Lifeguard   **September 2021-December 2021**
UCLA Recreation   *Los Angeles, CA*
- Enforced safety protocols for up to 50 swimmers daily, resulting in a decreased incidence rate and conducted regular pool maintenance checks and managed pool chemistry to ensure a safe & healthy aquatic environment..
- Inspected lifeguard equipment weekly, identified areas of improvement and reduced related costs by 15%.

Assistant Coach   **August 2019 - September 2021**
Centennial High School   *Corona, CA*
- Developed and executed training plans for 35 athletes, increasing varsity swimmers' personal best times by 30%.
- Mentored 15-20 JV swimmers, resulting in an increased success rate on swim meet qualifications.