

Eduardo Escoto

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Contact

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OBJECTIVE

I am an open minded student looking to conduct research in the areas of Machine Learning or Numerical Computing. I am fully funded by the National Science Foundation and I aspire to become a tenured Professor. I have established industry experience in writing production level code, leading long-term projects, working efficiently as an individual and in a team, and effectively converting ambiguous requirements into tangible implementations.

EDUCATION

- **University of California, Santa Barbara** Santa Barbara, CA
Bachelor of Science in Mathematics and Bachelor of Science in Statistics September 2017 – June 2020
 - **Relevant Coursework:** Bayesian Analysis, Data Science, Machine Learning, Stochastic Systems, Real Analysis, Numerical Analysis, Complex Analysis, Graph Theory, Advanced/Abstract Linear Algebra.
- **San Diego Miramar College** San Diego, CA
Associate of Arts in Mathematics September 2014 – June 2017
 - **Relevant Coursework:** Calculus I/II/III, Discrete Mathematics, C++, Java, Visual Basic.

HONORS AND AWARDS

- **NSF CSGrad4US Fellowship** Awarded: August 2022
National Science Foundation
 - **Fellowship Funding:** The NSF will provide funding for my Ph.D. upon acceptance into a CISE Ph.D. program.

EXPERIENCE

- **Noom** New York, NY
Product Data Scientist January 2022 – Present
 - **A/B Testing and Experiment Design:** Aids in design and development of A/B Tests and Experiments for Growth. Analyzes experiments results and helps stakeholders in pinpointing findings and high value results.
 - **ETL and BI Development:** Develops Spark and Redshift data pipelines for data analysis and for use across the organization. Builds LookML for Looker Dashboards and Explores to use new data sources.
 - **User Behavior Analysis:** Incorporates techniques like Causal Inference, Clustering, and Machine Learning to utilize observational and experimental data in order to understand user behavior and to inform product decisions.
 - **Machine Learning:** Builds ML models for Real-Time Personalization, Recommendation, and NLP from free text entry data. Leverages LLM's for building AI driven products.
- **Afiniti** Washington, DC
Machine Learning Data Scientist August 2020 – December 2021
 - **Built Traditional and Deep Learning Models:** Prototyped, engineered, and pipelined a plethora of NLP models, embedding models, and predictive models. Utilized traditional ML methods like Gradient Boosted Decision Trees and Random Forests for models with tabular data.
 - **Bayesian Data Analysis & Modeling:** Created STAN models to model interaction between call center agents and callers. Researched and improved models through iteration and testing.
 - **Code Contribution and Numerical Computing:** Maintained and contributed to company code repository for Machine Learning and Bayesian Models. Implemented new STAN models, algorithms, and features to internal modeling package.
- **UCSB Health and Wellness** Santa Barbara, CA
Data Science Intern May 2019 – June 2020
 - **Facilitated Data Gathering and Management:** Leveraged platforms like Qualtrics and Microsoft's Power BI in order to centralize data gathering and availability. Monitored survey question quality, and response quality.
 - **Analyzed Data and Builds Models:** Incorporated a wide array of tools and techniques to analyze all departmental and survey data. These included Bayesian Methods, Machine Learning, and Classical Methods.

- UCSB Computer Science** Santa Barbara, CA
 Data Science and Computer Science Undergraduate Learning Assistant March 2019 – June 2020
 - Engineered and Maintained Autograding Tooling:** Developed python scripts in order to autograde Jupyter Notebook assignments and upload scores and automatic feedback to Grading Portal via API.
 - Held office hours and Lead Review Sessions:** Spent time tutoring and helping students with homeworks and labs. Created midterm and final review questions and went over them in a lecture style session.
- Biosero Inc.** San Diego, CA
 Software Engineering Intern September 2016 – September 2017
 - Database Engineering and Driver Development:** Engineered and optimized microplate tracking database. Developed drivers for a myriad of Bio-tech instruments for use in laboratory automation. These included, Robotic Arms Sealers/Desealers, Acoustic Dispensing Systems, Microplate Readers, and many more.
 - MagneMotion Track Integration:** Utilized markov chains and queueing theory to optimize the movement of magnetic pucks carrying sample plates from instrument to instrument to minimize waiting time.
- Starbucks Coffee** San Diego, CA
 Shift Supervisor and Barista June 2013 – June 2019
 - Established Leadership and Teamwork Skills:** Led a team of world-class baristas to create a positive, inclusive, and motivating work environment that customers consistently enjoy visiting.

PROFESSIONAL CERTIFICATIONS

- Deep Learning Essentials** CoRise
 Credential ID: 69989482 Issued: March 2023
 - Foundations of Deep Learning:** Learned the foundations of deep learning by implementing neural networks in Pytorch while covering topics convolutional neural networks, transformers, and generative adversarial networks.
- Natural Language Processing** CoRise
 Credential ID: 70057964 Issued: March 2023
 - Core NLP Building Blocks:** Developed an understanding of NLP concepts like word vectors, intent classification, entity recognition and more using transformers to build projects like embedding-based retrieval.
- MLOps: From Models to Production** CoRise
 Credential ID: 67862113 Issued: February 2023
 - Acquired the skills to build effective real-world ML systems:** Learned about bootstrapping, label quality, experimentation, evaluation, deployment, and observability through hands-on projects.
- Data Centric Deep Learning** CoRise
 Credential ID: 64652793 Issued: December 2022
 - Learned Data-Centric Approach to Deep Learning:** Simulated the challenge of improving data quality, building and testing deep learning models, and improving performance with a human-in-the-loop in NLP and CV models.
- Building Transformer-Based Natural Language Processing Applications** NVIDIA
 Credential ID: 84adff79bea24686b8dc58f877397d71 Issued: September 2022
 - Built and Deployed Transformer Models:** Processed text data in preparation for Transformer based models, built Transformer based models for NLP tasks, and deployed them for real time inference.
- Personalized Recommendations** CoRise
 Credential ID: 56311061 Issued: August 2022
 - Hands-on Learning of Recommender Systems:** Built projects that leveraged multi-stage large scale recommenders and ML based approaches to ranking.

PROGRAMMING SKILLS

- Languages:**
 - Experienced With:** Python, SQL, Julia, R, Javascript/Typescript, LaTeX, Shell Scripting.
 - Familiar With:** Rust, C++, C#, Java, Lua.
- Technologies and Tools:**
 - Experienced With:** Spark, Tensorflow, Torch, Metaflow, Dash, STAN, React, Git, Looker.
 - Familiar With:** Airflow, Shiny, Docker, D3, Tableau.