Eduardo Escoto

Contact

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See what I'm working on at: github.com/eduardo-escoto

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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 Qualtics 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 Engeering 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**:
    - **Exprienced 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, Tableu.