

EMMANUEL MOKEL

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EDUCATION

Duke University

Bachelor of Science in Mathematics, Minor in Statistics

GPA: 3.85/4.0

August 2020 – May 2024

Durham, NC

- Relevant Coursework: Data Structures and Algorithms, Advanced Intro to Probability, Intro to Machine Learning and Computational Modeling

RESEARCH EXPERIENCE

Ochoa Lab

Undergraduate Researcher

August 2021 – Present

Durham, NC

- Conducts research under Dr. Alex Ochoa and Dr. Amika Sood in the Biostatistics & Bioinformatics Department at Duke University to model individual genetic admixture using covariance matrices
- Explores and benchmarks existing and novel methods of predicting genetic admixture using statistical and computational tools
- Reads relevant scientific literature to understand existing approaches, and develops new means for generating data

CovIdentify

Data Science Intern

May 2021 – August 2021

Durham, NC

- Worked under Dr. Jessilyn Dunn of the BME Department at Duke University on CovIdentify, a project which seeks to use biomarkers from wearables data to predict the prevalence of COVID-19
- Developed and improved the existing ETL pipeline from SQL database containing Apple, Garmin, and Fitbit data in JSON format
- Implemented a batch normalization process for JSON data, utilizing a pandas dataframe before loading into final SQL database
- Reduced runtime of data preprocessing by more than 30%, and changed number of steps in existing pipeline from 6 to 4

R Shiny Statistical Education

Undergraduate Research Assistant

November 2020 – June 2021

Durham, NC

- Successfully submitted and had a poster accepted to the United States Conference on Teaching Statistics (USCOTS)
- Worked alongside Statistical Science Professor Maria Tackett at Duke University to create interactive learning apps using R Shiny
- Updated apps with reactive inputs to demonstrate important topics in statistics such as ANOVA, logistic regression, and outliers

WORK EXPERIENCE

People's United Bank

Identity and Access Management Intern

June 2020 – January 2021

Bridgeport, CT

- Contributed to the IAM team by provisioning and revoking access to applications for current and terminated users at all levels
- Responded to access related issues for bank employees, identifying and reporting observed patterns within data
- Analyzed and consolidated data about bank applications between databases to record and rectify issues arising due to data transfers

The Paper Store

Sales Associate

July 2019 – March 2020

South Windsor, CT

- Managed varying responsibilities, including customer engagement, inventory control, financial transactions, and store upkeep
- Engaged customers by quickly responding to questions and providing relevant information and advice about store products
- Balanced 10-20-hour work weeks, and 30+ hours weekly during the holiday season, while being a full-time student

EXTRACURRICULAR INVOLVEMENT

Coach2Inspire

Coach and Personnel Development Chair

September 2020 – Present

- Coaches a team of 9-10-year-old kids in Durham, meeting biweekly on Saturday mornings and Monday evenings
- Collaborates with other coaches to devise and execute practice plans including drills and activities following COVID-19 restrictions
- Serves on the Personnel Development team, interviewing potential coaches and assessing their fit for the organization

Scale & Coin Undergraduate Business Society

Vice President of Finance

August 2020 – Present

- Elected as VP of Finance in May 2021, and is in charge of overseeing collection of organizational dues, managing the budget, and contributing as a member of the executive board
- Selected as one of 26 members out of over 200 freshman and sophomore applicants for the Fall 2020 class
- Completed a 7-week intensive training process, preparing weekly presentations including a stock pitch, elevator pitch, consulting case interview, impact investing pitch, and more

SKILLS & INTERESTS

- **Skills:** Excel, PowerPoint, R, Python, Azure, Java, SQL, Spanish (Conversational), public speaking
- **Interests:** Chelsea FC, NBA, history, running, real estate, baking, streetwear, shoes, rap music politics