MUHAMMED IKBAL ORUC

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EDUCATION

Koç University   Expected graduation: June 2025
Private research university acclaimed for its number one-ranked economics program in Turkey
- Master of Arts in Economics with Research Thesis | Full Merit Scholarship

Scientific and Technological Research Council of Türkiye Research Scholarship
Government agency promoting science and technology research and development through scholarships | $25,000 scholarship
Georgetown University
- Double major in Economics (BA) and Computer Science (BA)

Relevant Courses: Econometrics, Microeconomics, Macroeconomics, Game Theory, Labor Economics, Algorithms, Artificial Intelligence, Data Structures, Distributed Systems, Linear Algebra, Real Analysis

WORK EXPERIENCE

Dataminr, NYC, USA, *Data Analyst and Research & Development Intern (Full-time until Jan. 2023)*   Jun. 2022 - May 2023
Artificial intelligence company providing real-time event detection and alerts to various clients
- Engineered data from 300+ media sources along the US-Mexico border to build a transnational crime dataset; integrated data with AI models, resulting in a seven-figure government contract and aiding in the apprehension of wanted individuals. (Python, Java)
- Architected a dynamic cryptocurrency alert system for hedge fund clients; extracted data from 25,000 cryptocurrency projects, to monitor macroeconomic indicators, and enable data-driven high-frequency trading. (Python, Java).
- Implemented a company-wide workflow optimization initiative to accelerate data mining from GitHub, resulting in time savings of 1-2 hours per week for content engineers and cybersecurity domain experts (Python, Java, SQL).

Perrfy, Palo Alto, USA *Full Stack Developer and Tech Lead*   May 2021 - Aug. 2021
Early-stage startup providing cost-effective search engine optimization and web design to small businesses
- Oversaw the maintenance of the front and backend website as interim CTO, managing a team of 4 tech interns; integrated new design and product features into the website.
- Built a content creation tool that uses web scraping, machine learning and natural language processing to generate search-engine-optimized article outlines for users based on their topic of choice (Python, Node.js).
- Developed an algorithm to compute keyword search difficulty by leveraging insights derived from web scraping data from the top searched websites, enabling accurate rankings matching competitors charging 90% more for a similar service.

United States Agency for International Development (USAID), DC, USA *Data Analyst*   Sep. 2020 - May 2021
- Analyzed water consumption across villages in Syria and Palestine to find suitable water generation technology options (Python).
- Conducted financial analysis to determine cost-effective choices of water generation companies within the USAID Middle East and North Africa budget for the initiative; received a letter of appreciation from US Secretary of State, Anthony Blinken.

RESEARCH

High Inflation, Currency Depreciation, and Price Dispersion: Evidence from Turkish Grocery Retailers (*Ongoing Research Scholarship*)
- Web scraping and analyzing daily price data of staple goods from major Turkish retailers, online delivery service applications and local stores to model inflation and price dispersion of the Turkish economy.

Market Dynamics and Labor Implications in the Ride-Sharing Economy: Modeling Uber's Pricing and Employment Structure
- Assessed Uber's economic model to quantify its impact on driver earnings and market dynamics using the Oaxaca-Blinder decomposition OLS regression methodology to develop a monopsonistic model to explain Uber's pricing algorithm.

EXTRACURRICULAR

Campfire Music Foundation, *Board Member*   May 2022 - Present
Grassroots NGO aiming to build a new model of music streaming economics to pay artists more fairly
- Managed financial planning for Campfire music streaming app development, focusing on technology cost analysis and optimization.
The Students of Georgetown Incorporated, *Accountant*   Sep. 2019 -Jan.2020
Non-profit, operating seven on-campus coffee shops and grocery subsidiaries with over $5 million in annual revenues.
- Handled invoice management and journal entries and collaborated with the CFO to optimize pricing for increased sales and revenue.

SKILLS

Programming: Python, Pandas, Web Scraping (advanced) C++ (advanced), Java (advanced), MATLAB (intermediate)
Data Analytics: Stata (advanced), Looker (advanced), SQL (intermediate), Snowflake (intermediate)
Languages: English (native), Turkish (fluent), Arabic (intermediate proficiency)