TYLER DENNIS

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EDUCATION

University of Arizona, College of Science *August 2016 - May 2020*
BS in Biology and BS in Biochemistry
Department of EEB and Biology
Honors: Cum laude

EXPERIENCE

Investment Technologist
Consulting Services for the International Monetary Fund *February 2022-Present*

- Assessing IMF's current state of risk and exposure measures and asset allocation performance through conducting team member interviews and a systems review
- Collaborating with financial experts and data engineers to automate risk/exposure and performance data frameworks with Python scripting; reducing man-power hours and margin of error by 20 percent and 3 percent respectively
- Compiling current-state findings into intuitive diagnostic reports for historical documentation

Full-Stack Web3 Engineer
Ently *February 2022-May 2022*

- Deploying an end-to-end marketplace for artists, specifically musicians, to distribute their work as a tokenized digital asset.
- Implementing a MERN stack with Web3 and Ethers libraries to enable wallet connection and smart contract compatibility for transactions between users and minting new assets
- Designing and deploying dynamic Solidity smart contracts with Hardhat that are developer friendly and optimize cost per a transaction; reduced smart contract development costs by 35 percent
- Frontend Development for a fluid UI/UX, ushering in user growth

Full-Stack Developer Austin, Texas
Promoquo *August 2021-October 2021*

- Constructing both client and server side applications for a platform designed to bridge the gap between content creators and marketing agencies.
- Implementing a full suite of tools from APIs to provide users with functionalities like communication channels (TalkJS), payments methods (Stripe), metric analysis (Google Analytics), data intake (Instagram, Youtube, Twitter)
- Establishing route specific functionality dependent on type of user profile (admin, talent, client).

Data Analyst — Case Investigator
Arizona Department of Health *December 2020-August 2021*

- Intake of data regarding new and existing cases of infectious diseases, mainly focused on COVID-19; providing accurate analysis of data used to dictate a real-time public health response
- Creating an autonomous databasing pipeline for incoming information and calculating statistical analyses
- Precisely pinpointing regions of infectious disease influx and sources of transmission
- Coordinating with state officials on methods of reducing and mitigating the spread of Covid-19 and other infectious diseases

Assistant Researcher at Sarver Heart Center Tucson, Arizona
Myocardial Infarct Treatment Lab by Dr. Steven Goldman *January 2019-May 2020*

- The aim of the research group is to understand the affects of a myocardial infarct and determine methods of treatment through stem cell grafting.
- Pressure-volume (PV) loop analysis through LabChart and R programming, creating SOPs for such practices, and biochemistry lab maintenance.
- Tasked to determine the efficacy of differing myocardial stem cell treatments for congestive heart failure (CHF) through pressure-volume analysis.
- Contributor to the grant writing process to secure a combined 10,000 dollars of funding, resulting in an academic publication in Nature Journal

Researcher with SIGN Limb Deformity Clinic Nairobi, Kenya
Orthopedic Surgery group led by Dr. Richard Gellman *June 2019-August 2019*

- The aim of the research group is to investigate cause, trends, and treatments for limb deformity for Kenya's Ministry of Health.
- Compiled and implemented a database for health officials to record cases of limb deformity correction; used existing data to pinpoint areas of future undernourishment for proper allocation of resources.
- Worked closely with Ministry of Health officials and local orthopedic physicians to coordinate a plan for future intake and treatment of limb deformity patients.
- Learned surgical techniques and had hands-on participation in limb deformity treatment.

MISCELLANEOUS

Data provider and aggregator business for oracles bringing pricing data on-chain

Freelance NFT marketplace developer: primary and secondary sales, minting, royalties, wallet-pairing, NFT-gated content, frontend dev

Advisory board member for web3 companies: Ently and Promoquo

Publication: *Free-breathing gradient recalled echo-based CMR in a swine heart failure model* (2022). Nature. Craig C. Morris, Jacob Ref, Satya Acharya, Kevin J. Johnson, Scott Squire, Tuschar Acharya, Tyler Dennis, Sherry Daugherty, Alice McArthur, Ikeotunye Royal Chinyere, Jen Watson Koevary, Joshua M. Hare, Jordan J. Lancaster, Steven Goldman and Ryan Avery.

SKILLS

Programming skills:
Proficient-Expert in Python, JavaScript, React, Node, HTML, CSS, Solidity, R, PHP, AWS (cloud services), Docker, Routing; and experience working in Rust, GOlang, Swift

Research:
Grant Writing, Experimental design, Scholarly writing, Research Lab Certifications: Blood-borne Pathogens, IACUC, HIPAA, Aseptic Surgery, Chemical Safety and Biosafety, AED, First Aid

Biking**Extracurricular:**
Entrepreneur; Volunteer; Biking; Running