Edmund A. **Miller**

COMPUTATIONAL BIOLOGIST · SOFTWARE DEVELOPER

☐ 214-532-3452 | ✉ edmund.a.miller@gmail.com | ⌂ emiller88.github.io | ⊙ emiller88

Experience

Olypsis Technologies Inc.   *Dallas, Texas*

SOFTWARE DEVELOPER   *May 2018 - PRESENT*

- Developed the DAWN protocol to transfer files in a peer to peer fashion, that is decentralized and does not rely on a 3rd party to be trusted.
- Built and deployed DAWN protocol using Whisper, IPFS, AES256, and React.
- Created Smart contracts in Solidity for BlockNKey Project to manage users key-pairs.
- Designed Hyperledger systems for supply chain applications.
- Lead for Saro Project to created smart contracts for users to create non-fungible tokens of their real estate and split the ownership of the property using fungible tokens.

Millblock LLC   *Richardson, Texas*

CO-FOUNDER   *Sep 2017 - PRESENT*

- Analyzed blockchain projects and their respective cryptocurrencies as investments.
- Hired and managed contractors to carry out various technical projects.

Undergraduate Research, Functional Genomics Lab(Prof. Tae Hoon Kim)   *Richardson, Texas*

RESEARCHER   *Jul 2015 - PRESENT*

- Created a data pipeline to reproduce and create new eRNA predictions using Snakemake, homer, Bowtie2, and BedTools.
- Designed PCR primers for cell identification, target transcripts, and genotyping.
- Genotyped, and organized the lab's various knock-out mice colonies.
- Dissected mice to retrieve frontal cortex and then cultured the neuronal cells.
- Performed RNA isolation from cells that were treated with LPS-particles and used qPCR to quantify eRNA transcript levels.

Honors & Awards

INTERNATIONAL

2018	**First Place Set & Second Place ChainLink Bounties**, ETHSF2018	*San Francisco, California*
2019	**Third Place Status Bounty**, ETHDenver2019	*Denver, Colorado*

DOMESTIC

2018	**Second Place**, CometHacks	*Richardson, Texas*

Education

University of Texas at Dallas   *Richardson, Texas*

M.S. IN BIOTECHNOLOGY   *Aug 2018 - May 2019*

- Academic Excellence Scholarship 2015-2019
- Fast-Track Program

University of Texas at Dallas   *Richardson, Texas*

B.S. IN MOLECULAR BIOLOGY   *Aug 2015 - Aug. 2018*

- Academic Excellence Scholarship 2015-2019
- President's Scholarship 2016-2017
- Continuing Student Scholarship 2017-2018

Projects

Doom-Emacs   *GitHub*

CONTRIBUTOR   *Mar 2018 - PRESENT*

- Worked on Reference, Conda, and Solidity modules.
- Maintaining several personal modules such as Snakemake and LSP language support.