# Seungheon Oh

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## EDUCATION

**Seven Lakes High School**                                                                            *August 2019-May 2023*

GPA: 4.6(weighted) 3.9(unweighted)

**Texas A&M University [Math BS Honors]**                                            *August 2023 - Summer 2025*

GPA: 3.8          Calculus I-III, Differential Equations, Linear Algebra, Real Analysis, Analysis on Metric Space,
                        Abstract Algebra, Mathematical Probabilistics, Financial Mathematics, Algorithms and Data Structures

## WORK EXPERIENCE

**MLabs - Intern** (2022 April ~ 2022 June)

**Mlabs [https://mlabs.city] Full Time Engineer (2022 June ~ Present)**

- **Liqwid-Labs, Developer [https://github.com/Liqwid-Labs]  (2022 June ~ Present)**
  - Contributed and maintained various libraries used in blockchain projects and testing.
  - Developed and maintained Agora, a decentralized autonomous organization for blockchain.
  - Researched and built property testing frameworks for Plutarch, a domain specific language for on-chain scripts.
  - Maintained and serviced de-fi protocol of TVL +$60M at peak, 3rd in Cardano
- **Plutarch eDSL, Maintainer [https://github.com/Plutonomicon/plutarch-plutus] (2024 Jan ~ Present)**
  - Maintained Plutarch-Plutus eDSL, a Haskell-based eDSL for development of Cardano on-chain smart contracts.
  - Lead development adding new Ledger API into Plutarch to support new on-chain governance primops.
  - Revise and expand documentations, examples, and development suite available for users of Plutarch.
- **Pisa Fees, Project Manager [https://milestones.projectcatalyst.io/projects/1200157] (2024 Aug ~ Present)**
  - Initialized Cardano Catalyst project for funding of the project: from budgeting to technical outlines.
  - Drafted specification for the decentralized exchange specialized to cover transaction fees in foreign tokens.
  - Developed Cardano smart contract and offchain backend based on proposed plans with thorough testing.
  - Managed developer and budget allocation, high level project design, and code quality control.
- **MLabs Core Tools, Maintainer [https://github.com/mlabs-haskell] (2023 Nov ~ Present)**
  - Developed shared utilities for common use between various projects at MLabs.
  - Surveyed developer experiences and proposed solutions for ineffic
- **Consensus 2024 (May 2024), ZuriHac 2022 (June 2022), ZuriHac 2024 (June 2024), Rare Evo 2024 (August 2024)**
  - Participated in conferences for business development as part of the MLabs team.
  - Joined offline events for connection building on functional programming, blockchain, and finance industry.

## EXTRACURRICULAR ACTIVITIES

**TAMU Math Club** (2023 ~ present)

- Participated in events that advocate math education, learn research topics, and local competitions.

**TAMU Blockchain Club - Officer**(2023 ~ present)

- **Dallas National Blockchain Summit** (November 2023)
- Served as an executive member hosting events and leading developer cohort for smart contract newcomers.

## HONORS AND AWARDS

**Texas A&M University Art & Science department Dean's Honor Roll** (2023, 2024)

**Sheila and Robert Templeton Endowed Scholarship** (2024)

## SKILLS

**Korean (Fluent/Native), English (Fluent)**

**System Management & Continuous Integration on Linux systems(Mostly Hercules-CI for Nix) (Proficient)**

**Functional Programming**

- Haskell, Nix, Ocaml, Category Theory, Type Level Programming

**Programming**

- C (POSIX system programming and Graphics), PostgreSQL, Go, JS/TS, Python

**Formal Verification**

- Agda, Coq (Basic)