

## Budget

Since we are not currently performing trades and do not intend to live off the platform, the proposed budget reflects costs associated if we were to develop and test the platform with live trading. The budget is structured to reflect necessary components for development and testing, considering the possibility to receive donated items when needed.

### Major Budget Items

#### 1. Investing Capital

- **Cash allocated for algorithmic trading:** For practical purposes of the project.
  - *Estimated:* No required minimum but starting with 1000 would be reasonable as it would allow for diversification.
  - *Potential Donation:* ECE Department

#### 2. Computational Resources

- **Cloud Computing Services:** For training and testing the reinforcement learning model, as well as hosting the backend of the web application.
  - *Estimated Cost:* \$1,000 for initial development and testing (6 months).
  - *Potential Donation:* Seek credits from providers like AWS, Azure, or Google Cloud.

#### 3. Miscellaneous Items

- Includes domain registration for web application, minor hardware needs, and team collaboration tools.
  - *Estimated Cost:* \$500.

### Summary of Costs

| Item                        | Estimated Cost | Sources                |
|-----------------------------|----------------|------------------------|
| Investing Capital           | \$1,000        | ECE Department         |
| Cloud Computing Services    | \$1,000        | Cloud provider credits |
| Miscellaneous Items         | \$500          | Personal reserve       |
| <b>Total Estimated Cost</b> | <b>\$2,500</b> |                        |

### Key Notes

- The budget is scalable, allowing for adjustments based on the resources we secure through donations or partnerships.
- If we were to scale up, the primary cost driver would be hardware, as high-performance computing would be essential for analyzing large datasets and updating our stock positions in real time.

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- We plan to approach vendors and service providers for possible donations or discounts, especially given the educational and research-oriented nature of the project.

This budget is designed to meet current project needs while leaving room for future expansion if live trading is pursued.