Kareem Elewa

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EDUCATION

University of Minnesota – Minneapolis, Minnesota   Expected Graduation: May 2027
Bachelor of Science in Computer Science
- Expected Coursework: Algorithms & Data Structures, Multivariable Calculus

Rice University – Remote   Sep 2022 – Oct 2022
Fundamentals of Computing Specialization
- Relevant Coursework: Principles of Computing I, Principles of Computing II, Algorithmic Thinking I, Algorithmic Thinking II

EXPERIENCE

HyperPenguin Games – Gameplay Programmer   Apr 2023 – Jul 2023
Full-stack game development in a large microservice codebase following the Kanban methodology.
- Implemented a wide variety of **back-end** features such as monetization, data storing, and player trading systems. **(REST, TypeScript)**
- Reduced CPU load by up to **15%** through writing unit, integration and functional **tests.**
- Debugged **multithreaded** applications. **(Event Handling, Locks)**
- Developed and deployed interactive **front-end** elements and components such as transition screens, shopping pages, button animations.

2BRO STUDIOS – Lead Gameplay Programmer   Apr 2021 – Sept 2022
Project management & lead programming in the development of games.
- Managed end-to-end production, driving $10,000 profit in 2 weeks
- Achieved 2+ million plays, peaking at **700,000 monthly active users**
- Incorporated **scrum** methodologies and conducted daily standup meetings, enhancing team coordination
- Built a thriving community of 20,000+ members
- Implemented efficient **programming patterns, data structures, algorithms**, and security practices
- Fostered a collaborative and productive work environment, leading to a highly motivated team and efficient project execution. **(TypeScript)**

PROJECTS

Command Line REST API – GitHub   Sep 2022 – Oct 2022
- Built a REST API to store command line code snippets with their descriptions
- Used repository & dependency injection design patterns to encapsulate data access
- Developed through **TypeScript, NodeJS, Express, & MongoDB**

Machine Learning Stock Forecaster – GitHub   Aug 2022 – Sep 2022
- Processed and trained a model with the Adam Optimization algorithm
- Utilized LSTM Neural Networks to predict closing prices of stocks
- Developed through **Python**

SKILLS

Programming Languages: Java, JavaScript/TypeScript, Python, C#, C++, Lua, PHP, SQL
Other: Git, ReactJS, NodeJS, Angular, Express, HTML, CSS/Bootstrap, Scikit-learn, Kubernetes, MongoDB