

Kareem Elewa

kareem.elew@gmail.com | [LinkedIn](#) | [Website](#) | [GitHub](#) | Minneapolis, Minnesota

EDUCATION

University of Minnesota – Minneapolis, Minnesota

Expected Graduation: May 2027

Bachelor of Science in Computer Science

- Relevant Coursework: Algorithms & Data Structures, Multivariable Calculus

Rice University – Houston, Texas

Sep 2022 – Dec 2022

Fundamentals of Computing Specialization

- Relevant Coursework: Principles of Computing I, Principles of Computing II, Algorithmic Thinking I, Algorithmic Thinking II

EXPERIENCE

Junior Programmer – HyperPenguin Games

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.

PROJECTS

Head of Studio and Chief Engineer – 2BRO STUDIOS

Apr 2021 – May 2023

Project management & lead programming in the development of multiple indie games.

- **Founded** and **led** a game development studio, fostering 20 employees.
- Managed end-to-end production of 4 games, driving \$100,000 in revenue in 4 weeks.
- Achieved **5+ million plays** in first quarter, peaking at **1,700,000 monthly active users**.
- Incorporated **scrum** methodologies and conducted daily standup meetings, enhancing team coordination.
- 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**)

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, VS Code