

# John Photis

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## EDUCATION

### Suffolk University, B.S. 2023

Computer Science (STEM)

**Boston, MA**

September 2019-May 2023

- **Honors/Awards:** Dean's List, Dean's Scholarship, Samia Scholar
- **Relevant Coursework:** Object Oriented Programming, Data Structures and Algorithms, Calculus I, Calculus II, Computer Architecture, Operating Systems, Computer Networks, Database Systems, Data Science, Discrete Mathematics I, Discrete Mathematics II, Probability and Statistics

## WORK EXPERIENCE

### Contractor and Freelance

**Remote**

Software Developer and Game Developer | Lua, JavaScript, C#, .NET, HTML / CSS, WPF, XAML

June 2017-December 2023

- Developed and implemented over 30 custom scripts in Lua, JavaScript, C#, and .NET, significantly enhancing gameplay mechanics for various open-source games.
- Achieved a 70% increase in player engagement by introducing new features and optimizing existing scripts.
- Designed and maintained server-side plugins, including WPF and CAD systems in C# and XAML, leading to a 90% improvement in player satisfaction.
- Collaborated with a development team of three, efficiently implementing feedback and delivering high-quality game experiences, with projects completed within 99% of estimated timelines.

### Hellenic World Production - Greek American Sports

**Winthrop, MA**

Software Development & Research Intern | HTML, CSS, CMS

May 2022-August 2022

- Conducted research identifying key drivers of user engagement, demonstrating that interactive content and personalized updates could boost on-site duration by 15% and user retention by 10%, respectively.
- Played a key role in the development and launch of a Greek American sports platform, attracting over 1,500 unique visitors in its first quarter.

## PROGRAMMING PROJECTS

### [Lyft Back-End Engineering Simulation](#) | (Python, TDD, UML)

October 2023

- Led a team in the Back-End Engineering simulation for Lyft Rentals, resulting in a 40% acceleration of project milestones through strategic leadership and effective codebase refactoring.
- Designed and executed a comprehensive UML class diagram and unit testing strategy, achieving a 99% success rate, which significantly enhanced software maintainability and reliability.

### [Linux Terminal-Shell Replica](#) | (C, Git, Linux Ubuntu)

February 2023-September 2023

- Engineered a high-functioning replica of a Linux terminal-shell in C, showcasing expertise in system operations by integrating advanced features like command parsing and background task management, demonstrating innovation and technical proficiency.
- Conducted over 500 rigorous tests to ensure optimal performance and reliability, achieving a standout 99% success rate, highlighting commitment to quality and detail.

### [Full Stack Police Force Web Application Database](#) | (Python, Django, SQLite3, React.js, HTML, CSS)

September 2022-December 2022

- Created a full stack web application for police force management, focusing on user experience and efficient data handling of over 1,000 records, showcasing proficiency in full-stack development.
- Built an advanced query system that significantly reduced search times, improving productivity by 30%, and demonstrating innovation in database management and optimization.

### [Discord Bot](#) | (JavaScript, Node.js, Discord.js)

November 2022-December 2022

- Programmed a sophisticated automated Discord bot that streamlined server moderation tasks by 50%, showcasing skills in automation and bot development.
- Enhanced server chat experience by incorporating content monitoring and keyword-triggered responses, reducing inappropriate language by 60%, reflecting a commitment to creating positive community environments.

### [Yelp Sentimental Analysis](#) | (Python, JSON, NLTK)

March 2022-April 2022

- Analyzed and processed a large dataset of over 150,000 randomly selected Yelp reviews using NLTK for natural language processing, demonstrating advanced skills in data analysis and manipulation.
- Engineered a unique analytical model to identify and rank the top 500 positive and negative lemmas by sentiment, successfully exporting the findings to a CSV for further analysis, showcasing an innovative approach to sentiment analysis.

## TECHNICAL SKILLS

**Programming:** Python, Java, JavaScript, C#, C, C++, HTML, CSS, Swift, Lua, XAML

**Frameworks, Libraries, and Database Management Systems:** .NET, SQL, React, Node, Django, Qt

**Software:** Git, GitHub, WPF, Bash, VS Code, Eclipse, Spyder

**Operating Systems:** Windows, Linux