John Photis

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EDUCATION

Suffolk University, B.S. 2023 **Boston, MA**
Computer Science (STEM) 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 functional replica of a Linux terminal-shell in C, integrating advanced features such as command parsing and background task management, demonstrating a deep understanding of system operations.
- 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*