

Justin Kline

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Education

Towson University 2023

- **Degree:** Bachelor of Science
- **Major:** Computer Science
- **Minor:** Mathematics
- **GPA:** 3.4

Relevant Coursework

- **Applied:** Artificial Intelligence, Blockchain/Cryptocurrency, Database Management
- **Algorithms:** Data Structures/Algorithm Analysis, Object Oriented Design, Program Language Design

Employment

Towson University, *Computer Science Tutor*

September 2023 – December 2023

- Revitalized learning methods for dozens of students in introductory computer science courses, enhancing their grasp of complex concepts.
- Spearheaded the development of personalized tutoring, significantly improving student engagement and performance.
- Facilitated mastery of Object-Oriented Design, data structures (e.g., Linked Lists, Binary Search Trees), and algorithm design (including sorting and recursion).

Stake Game, *Full Stack Developer*

March 2022 – September 2022

- Spearheaded the development of Stake Game, a DeFi staking application, focusing on delivering a seamless user experience and high-performance interactions on the Ethereum blockchain.
- Leveraged React.js for dynamic and responsive front-end development, and MongoDB for efficient user data storage
- Integrated sophisticated Web3.js interfaces for seamless blockchain interactions, boosting user engagement by 45% with user-friendly application features and efficient transaction handling.
- Employed a rigorous test-driven development approach, utilizing tools such as Hardhat for smart contract testing and deployment, ensuring robustness and security of DeFi operations.
- Actively participated in iterative design and development processes, emphasizing continuous integration and deployment (CI/CD) practices to maintain consistent quality and adaptability to user feedback.

Personal Projects

Crypto Gaming, *Full Stack Developer*

September 2023 – December 2023

- Co-developed a pioneering blockchain-based gaming platform with a team of four, facilitating secure and efficient cryptocurrency transactions for an enhanced gaming experience on the Ethereum network.
- Integrated React.js and Web3.js for a dynamic and responsive frontend, ensuring seamless interaction between the platform and the Ethereum blockchain.
- Led the design and deployment of smart contracts using Solidity, establishing a foundation for secure, transparent in-game transactions and rewards distribution
- Embraced Agile methodologies, utilizing GIT for source code management and Jira for project tracking, facilitating effective teamwork and timely delivery of project milestones, and Mocha for comprehensive unit testing

File Management System, *Back End Developer*

March 2023 – June 2023

- Developed a Java-based file management system, simulating key functionalities of an operating system's file handling, such as diverse directory types and file operations.
- Implemented advanced data structures (arrays, linked lists, trees) for optimized file operations including creation, reading, writing, and deletion.
- Employed comprehensive unit testing, validating the functionality and integrity of file operations and directory management
- Designed and executed JUnit test cases to systematically verify each function, significantly improving code quality

Walmart to eBay Arbitrage Tool, *Back End Developer*

September 2021 – April 2022

- Developed a comprehensive tool to automate the process of identifying low-cost items on Walmart and listing them on eBay for arbitrage, utilizing Python for scripting and Selenium for web automation.
- Engineered the automation of listing products on eBay, including dynamic pricing calculations to maximize profit margins while ensuring competitive pricing.
- Designed functionality to revise and remove eBay listings based on real-time changes in product availability and price on Walmart, enhancing the system's adaptability to market conditions.
- Incorporated advanced API integrations for seamless data synchronization between Walmart and eBay platforms, facilitating a smooth workflow for listing and managing products.
- Utilized BeautifulSoup and requests libraries for effective parsing of HTML content and handling web requests, combined with the power of OpenPyXL for Excel operations to organize and track arbitrage opportunities.