

TECHNICAL SKILLS

- **Languages:** PHP, Javascript, Node.js, SQL, Python, JSON, HTML, CSS
- **Frameworks:** React, Express, Socket.io, MongoDB, Prisma, jQuery, AJAX, tRPC
- **Tools:** Linux, Git, TypeScript, SASS, Apache, Nginx, CI/CD, REST API, Unit Testing

EXPERIENCE

- **Software Engineer** 2019 - Present
 - *Self-Employed*
 - Improved SQL database query times by 20% by optimizing field indexing
 - Developed a Python script to automate data fetching and database table creation
 - Developed a forum with React, Express, and MySQL, supporting threads, posts, and user auth
 - Created an administrator dashboard with PHP, JavaScript, and MySQL to analyze site and user statistics
 - Improved overall performance by 25% by refactoring existing code
 - Implemented Apache and Nginx configurations to handle server routing
 - Utilized websockets to implement a live-updating timeline feed
 - Implemented custom continuous integration and deployment scripts
 - Utilized unit tests to catch bugs and test code prior to being shipped
 - Created and maintained in-depth documentation of features and installation processes

PROJECTS

- **Fleiya Dashboard** 2022
 - A community resource for the PokeOne online game, containing information about in-game features. Source Code
 - Node.js, React, TypeScript, Express, Prisma, MongoDB, tRPC*
 - Developed a Python script to scrape PokeAPI and update MongoDB clusters
 - Implemented tRPC wrapper over Prisma for client-to-server TypeScript definitions of MongoDB schemas
 - Uses Express routing to handle OAuth logic for user creation and sign-in
 - Documented in-depth processes for installation and data maintenance
- **Pokemon Absolute** 2020 - Present
 - An online Pokemon RPG with in-depth battling, trading, map exploration, and more. Source Code
 - PHP, JavaScript, jQuery, Python, MySQL, SCSS, CI/CD, Apache*
 - Utilized Phaser.js to develop an open-world map system with server-side validation
 - Utilized Python to scrape data from PokeAPI to fill out SQL database information
 - Implemented an administrator dashboard to display and manage SQL database information
 - Utilizes a continuous integration and deployment pipeline to sync the Git repository with the server
 - Developed a permissions system to manage feature access on a per-user basis
 - Uses SASS and PHP scripts to create and manage custom user-interface themes
 - Engineered an extensive OOP-based custom battle system
 - Maintained the remote Linux server
- **Pokemon Absolute Chat System** 2020 - Present
 - A real-time socket-based chat system used in-game for Pokemon Absolute. Source Code
 - TypeScript, Node.js, SQL, Socket.io*
 - Utilizes a websocket to handle chat messages, commands, and user authentication
 - AES encrypts chat messages before storing them in the SQL database
 - Utilizes a direct SQL database connection to allow for communication between clients
 - Implemented an authentication system to verify each client on initial connection
 - Developed custom chat commands for client entertainment and utility
 - Implemented a system that prevents message spam and handles chat bans