

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
 - Improved SQL database query times by 20% by optimizing field indexing
 - Developed Python scripts to automate data fetching and database table creation
 - Created an administrator dashboard with PHP, JavaScript, and MySQL to analyze site and user statistics
 - Utilized websockets to implement a live-updating timeline feed
 - Improved overall performance by 25% by refactoring existing code
 - Developed a forum with React, Express, and MySQL, supporting threads, posts, and user auth
 - Implemented Apache and Nginx configurations to handle server routing
 - 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
Source Code
 - The go-to resource for anything and everything regarding the online game PokeOne.
Node.js, React, TypeScript, Express, Prisma, MongoDB, tRPC
 - Implemented a tRPC wrapper with Prisma to provide MongoDB schema TypeScript definitions between the client and server
 - Developed a Python script to scrape PokeAPI and update MongoDB clusters with 800+ Pokemon species
 - Used Express routing to handle OAuth logic for user authentication, creation, and sign-in
 - Documented in-depth processes for installation and data maintenance
- **Pokemon Absolute** 2020 - Present
Source Code
 - An online Pokemon RPG with in-depth battling, trading, map exploration, and more.
PHP, JavaScript, jQuery, Python, MySQL, SCSS, CI/CD, Apache
 - Utilized Python to scrape data from PokeAPI to fill out the SQL database with 1000+ monster species, 800+ battle attacks, 600+ items, and hundreds of battle abilities
 - Implemented an administrator dashboard to display and manage SQL database entries
 - Utilizes a continuous integration and deployment pipeline to sync the Git repository with the server
 - Improved DevSecOps by implementing a permissions system to manage user access to critical features
 - Developed an open-world map system with server-side validation using Phaser.js
 - Engineered an extensive custom battle system based upon object-oriented practices
- **Pokemon Absolute Chat System** 2020 - Present
Source Code
 - A real-time socket-based chat system used in-game for Pokemon Absolute.
TypeScript, Node.js, SQL, Socket.io
 - Utilizes a websocket to handle chat messages, commands, and user authentication
 - Used AES encryption on chat messages before storing them in the SQL database
 - Implemented an authentication system to verify each client on initial connection
 - Implemented a system that prevents message spam and handles chat bans