

# ZACHARY STALLINGS

## FULL STACK SOFTWARE ENGINEER

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**TECHNICAL SKILLS** • JavaScript • TypeScript • Python • SQLAlchemy • SQLite3 • PostgreSQL • Sequelize • HTML • CSS • Flask • Django • Express • React • Vite • Redux • Node.js • Redis • Amazon S3 (AWS) • Websockets • Proficient in Git

**RELEVANT SKILLS** • SCRUM Methodologies • Pair Programming • Team Coordination • Quality Assurance

## PROJECTS

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**SLACORD** *App Academy* | Github | Live *Python • Flask • React • Redux • Amazon S3 • Websockets • SQLAlchemy*

- Spearheaded a collaborative project, "Slacord", a Discord-inspired platform, utilizing Python and Flask for the backend, and integrated Amazon S3 for image storage, ensuring a user-friendly experience for media sharing.
- Implemented real-time chat features using Websockets. Utilized Redux middleware to manage WebSocket connections and dispatch actions to update the state in real-time.
- Employed SQLAlchemy for efficient database operations, streamlining data handling and integrity.
- Established useHistory and useLocation hooks from the React-Router package to manage navigation and redirect users based on authentication status.
- Participated in Daily Stand Ups, Pull Requests, and Pair Programming in a 1-week sprint, delivering a platform with enhanced user authentication and seamless real-time messaging, improving user experience and engagement.
- Established a CI/CD pipeline utilizing GitHub for code collaboration and version control, and Render for seamless deployments, ensuring continuous delivery of new features and updates to the live platform.

**AMAZING** *App Academy* | Github | Live *JavaScript • React • Redux • Express • Sequelize*

- As a solo project, built "Amazing", an e-commerce platform akin to Amazon. Utilized React for a user-friendly UI, Redux for organized state management, Sequelize for efficient data handling, and Express for streamlined server tasks.
- Employed React's component-based architecture and hooks to create interactive and real-time updates on product listings, cart contents, and wishlist functionalities, leading to a more engaging user interface and improved user satisfaction.
- Designed a robust Express backend, improving request-response cycles with efficient routing, middleware, and optimized Sequelize queries. Implemented error handling and asynchronous programming for enhanced responsiveness and efficiency.
- Engineered a two-tier Redux store to manage cart operations, enhancing user experience by enabling seamless transitions from cart updates to secure purchases, and ensuring accurate backend synchronization.

**MEET HERE** *App Academy* | Github | Live *JavaScript • React • Redux • Express • Sequelize*

- Independently developed "Meet Here," a Meetup inspired platform, using React for dynamic UI, Redux for state management, Sequelize for ORM, and Express for API/server logic.
- Designed the group creation module using React's controlled components for form inputs, coupled with Redux actions and reducers to handle group data flow. Sequelize models were employed to define group attributes and relationships, while Express routes ensured secure and efficient data retrieval and storage.
- Mastered React components for group listings, using Redux thunks for asynchronous user-group updates. Leveraged Sequelize's many-to-many relationships for user memberships and Express for join/leave operations, streamlining user community integration.

## EXPERIENCE

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**WEB DEVELOPER** • *Toontown Rewritten* • Remote **4/2021 – Present**

- Transitioned the main website's backend from Java to Django (Python), enabling easier updates and contributions from Python-skilled game developers.
- Created a user-friendly interface enabling non-technical staff to efficiently manage blog posts, moderate in-game chats, and review player-submitted character names.
- Collaborated with UX designers and brand artists to create visually compelling single-page layouts, showcasing major new game updates.

## EDUCATION

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**APP ACADEMY** • Full Stack Software Development Academy

**3/2023 – 9/2023**