

# 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

**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.
- Enhanced request-response efficiency in an Express backend through optimized routing, middleware, and Sequelize queries, coupled with error handling and asynchronous programming for improved responsiveness.
- 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.

## EXPERIENCE

**FULL STACK WEB DEVELOPER** • *Toontown Rewritten* • Remote 6/2023 – Present

- Helped transition 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.
- Developed and integrated a Cookie acceptance system to align with European Commission's regulations, collaborating with legal and development teams to enhance website privacy and ensure compliance with international web privacy laws.

**QUALITY ASSURANCE SPECIALIST** • *Toontown Rewritten* • Remote 4/2021 – Present

- Led automated Quality Assurance testing for Toontown Rewritten's Django-based website, ensuring seamless functionality and reliable integration with the main game platform.
- Directed Quality Assurance for "The Sellbot Force," the largest game update since 2008, involving extensive gameplay, log analysis, and cross-departmental feedback.
- Identified and reported critical issues, providing constructive insights to enhance game stability, functionality, and overall player experience.

## EDUCATION

**APP ACADEMY** • Full Stack Software Engineer Certification

3/2023 – 9/2023