Xavier Brown

Software Engineer | Graphic Designer

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Education

University of Texas at Dallas – Bachelor of Arts in Arts, Technology & Emerging Communications   Dec 2023

Skills

Languages: HTML, CSS, JavaScript, TypeScript, Python, PHP
Technologies: Node.js, Express, Angular, React.js, Next.js, Django, Laravel
Software: Adobe Photoshop, Adobe InDesign, Adobe Illustrator, WordPress, Figma
Other: Git, SQL, Docker, Google Firebase, Amazon Web Services (AWS)

Experience

Software Developer, Digital Movie Boards LLC – San Antonio, TX   May 2024 – Current
- Developed high-performance PHP and React.js-based web applications for running on embedded Linux boards
- Designed app UI/UX and animated banner graphics with Adobe suite to be featured alongside product
- Implemented over-the-air (OTA) update system with RAUC and Eclipse hawkBit for seamless client updates
- Implemented CI/CD with Armbian framework for building Linux images and GitHub Actions for deployment
- Utilized AWS EC2, Lambda, S3 and DynamoDB for product update server, registration and licensing services

Senior Graphic Designer, University of Texas at Dallas – Richardson, TX   Jan 2020 – Dec 2023
- Worked with the Office of Student Services & Support to advance community initiatives at UT Dallas
- Designed event flyers, banners, brochures, etc., along with videos and swag branding using Adobe product suite
- Published annual newsletter (*The Mosaic*) featuring highlights and activities from campus organizations
- Managed websites for departments in WordPress, ensuring timely updates and engaging page visuals
- Achieved 20% increase of total employee group membership at EOY 2023 by hosting networking events and meetings

Projects

RPChat — Online Text-Roleplaying Platform   rpchat.net
- Launched website in Django featuring story-like chat messaging for writers and tabletop gaming enthusiasts
- Developed with JavaScript and Websockets (Django Channels) for chat layer and Amazon S3 for user media storage
- Recorded 20+ monthly active users since Jan 2023; 100+ unique page hits per month

CharacterBase — Online Character Management Tool   github.com/characterbase
- Created web app in Angular, Cloud Firebase and Golang to help writers manage their characters for worlds and stories
- Used Google Cloud Firebase suite for user authentication, data storage and remote API functions.
- Frontend and Golang backend linked separately using Docker containers and microservices architecture

NineTracks — Collaborative Music Player   github.com/ninetracks/web
- Developed single-page web app in React.js for sharing and listening to YouTube tracks in real-time with friends
- Integrated with Redux, Cloud Firestore for user storage and Cloud Functions for channel full-text search
- Uses custom PeerJS server for music playback synchronization via WebRTC