Jack Kammerer

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EDUCATION

Texas State University   San Marcos, TX
Bachelor of Science in Computer Science, Minor in Business Administration   *August 2021 – August 2025*
- *Relevant Coursework:* Data Structures and Algorithms, Computer Architecture, Software Engineering, Unix System Programming, Algorithm Design and Analysis, Computer System Security, Internet Software Development, Object Oriented Design and Programming, Intro to Databases, Intro to AI systems

TECHNICAL PROJECTS

TXST Marketplace | *Flask, Firebase, HTML/CSS, JavaScript*
- Secured the platform with .edu-restricted Firebase Auth and granular Firestore rules
- Engineered real-time chat via Firestore subcollections; abstracted message logic into a reusable service layer
- Streamlined releases with Bitbucket Pipelines → Heroku, integrating unit tests and lint checks on every push

Tech Blog | *React, Flask, Firebase*
- Self-hosted on a Raspberry Pi behind Nginx; wrote bash scripts for daily off-device backups
- Integrated Markdown rendering + protected routes, so only authenticated users can CRUD posts
- Refactored UI into reusable Tailwind components, boosting Lighthouse accessibility & performance scores

BPM Playlist Generator | *React, Flask, Firebase, Reccobeats API, Spotify API*
- Mapped Reccobeats BPM data to age-based "golden ranges" and five intensity tiers
- Automated playlist creation via Spotify OAuth flow; handled token refresh and error states gracefully
- Packaged core logic into an Express middleware for easy reuse in other music projects
- Delivered playlists within seconds, providing a clean, responsive interface focused on ease-of-use and speed

Library Tracker | *MongoDB, Express.js, React, Node.js*
- Designed and built a full-stack application to manage library books, including check-in/check-out functionality
- Developed RESTful APIs with Express.js and MongoDB for dynamic routing and efficient database operations
- Created a responsive React frontend to interface with the backend, integrating user actions via Axios

EXTRACURRICULARS

Boko Hacks   *March 2024*
- Demonstrated cybersecurity expertise at Boko Hacks by leveraging the KC7 platform to develop a secure file-sharing solution. Collaborated with a team to rank in the top 5 and gained insights from Microsoft guest speakers

Google Developer Student Club   *February 2023*
- Designed and implemented a crowdsourcing app for the 2023 Solution Challenge, enabling users to create posts to donate or solicit donations. Built the front end with Flutter in Dart and developed account functionality using Back4App

Girls Who Code   *August 2022*
- Organized and led a Python-based calculator workshop for Girls Who Code, teaching over 30 participants programming fundamentals. Coordinated team efforts to develop materials, improving leadership and communication skills

EXPERIENCE

Framer   August 2023 – May 2024
Hobby Lobby .   *San Marcos, TX*
- Custom-framed artwork, photos, and memorabilia with precision and attention to detail, collaborating with customers to match design aesthetics.
- Managed customer orders and inventory, gaining experience in time management, quality assurance, and hands-on craftsmanship.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, JavaScript, TypeScript
Back-End / API: Flask, Node.js/Express, Firebase (Auth, Firestore, Storage), REST, JWT, OAuth 2.0
Front-End: React, Next.js, Tailwind CSS, HTML/CSS
Data & Machine Learning: PostgreSQL, MySQL, Oracle, MongoDB, NumPy, Pandas
DEVOPS & Tools: Git/GitKraken, Bitbucket Pipelines, Heroku, Jira, Bash, Nginx