

Shengran (Kevin) Jin

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EDUCATION

University of Michigan, Ann Arbor

B.S.E. in Computer Engineering; GPA: 3.96 / 4.0

Ann Arbor, MI

Sep 2024 – Present

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C++, C, JavaScript, Typescript, Kotlin, LUA, R, SQL
- **Frameworks and Libraries:** Vue.js, React.js, Next.js, Express.js, Astro.js, Bootstrap, Tailwind CSS, ROS2, Django, REST, Spring Boot, Ansible, SQLite, MySQL, PostgreSQL, SQLAlchemy, ConnectRPC, Protobuf, MessagePack, Flask, FastAPI, Pandas, NumPy, Matplotlib, OpenAI SDK
- **Tools and Platforms:** Git, Linux, Shell, L^AT_EX, VSCode, IntelliJ IDEA, Postman, Docker, Vite, AWS, Google Cloud, GitHub CI/CD

EXPERIENCE

- **TikTok** San Jose, California
Software Engineer Intern *May 2026 - July 2026*
 - Incoming
- **Jaseci Labs** Ann Arbor, Michigan
Developer Advocate *Oct. 2025 – Present*
 - Built documentation benchmarking platform (React/Flask/PostgreSQL) with OpenRouter integration, achieving <0.025 coefficient of variance on 120+ automated test cases with multiple models and jaclang compiler validations
 - Designed LLM-enabled MapReduce pipeline with concurrent processing to compress 1.2MB documentation into 10KB machine-readable format, achieving 93% size reduction while maintaining critical information
- **Michigan Mars Rover Student Project Team** University of Michigan, Ann Arbor
Teleoperations Lead *July 2025 – Present*
 - Redesigned rover teleoperation backend from Django to FastAPI with 6 async WebSocket endpoints and REST API, integrating ROS2 pub/sub messaging for bidirectional real-time control at 60Hz
 - Implemented MessagePack binary serialization across Vue.js frontend and Python backend, reducing network latency by 44% and bandwidth by 36% for autonomous vehicle command/telemetry transmission
 - Built THREE.js-based 3D rover visualization tool rendering URDF models for real-time inverse kinematics target positioning and teleoperation spatial awareness

PROJECTS

- **SpotifyExplorer:** React application to download, manage, and create Spotify playlists
 - Built frontend with React and Tailwind CSS; backend REST API with Django and Django REST Framework
 - Integrated Spotify OAuth2 authentication and yt-dlp for music downloads and playlist management
 - Implemented MySQL caching layer for optimized query performance
- **TwitchPlus:** Twitch Media Recommendation Application
 - Built React frontend with Ant Design and Spring Boot REST API with Spring Security authentication
 - Deployed on AWS (RDS for MySQL, App Runner for application) with Caffeine caching layer
 - Implemented content-based recommendation engine for personalized streaming suggestions
- **MiniPlayer:** Kotlin Android app for music management and playback
 - Developed a Kotlin music application using Android Jetpack Library and Hilt DI
 - Built mock REST API server using Ktor and Retrofit client
 - Designed feed, album, and favorite UI in Jetpack Compose following MVVM architecture
 - Incorporated Google Exoplayer for music playback
- **PDF-GPT:** Full stack Q&A AI Agent for PDF Document Queries
 - Built full-stack application with React frontend and Express.js REST API backend
 - Integrated OpenAI GPT-4o via LangChain to enable document parsing, vector storage, and conversational queries