

# Shengran (Kevin) Jin

linkedin.com/in/kevinjin0420, github.com/kevinjin420

kevinjin0420@gmail.com

+1-240-756-8098

## EDUCATION

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- **University of Michigan, Ann Arbor**

*B.S.E. in Computer Engineering, Data Science; GPA: 3.96*

Ann Arbor, MI

*Sept. 2024 – May 2028 (Expected)*

## SKILLS

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- **General:** Communication, Leadership, Problem Solving, Web Development, User Interface Design, Backend Development
- **Programming Languages:** Python, Java, C++, C, JavaScript, Typescript, Kotlin, LUA, R, SQL
- **Frameworks and Libraries:** Vue.js, React.js, Bootstrap, TailwindCSS, ROS2, Django, REST, Spring Boot, Ansible, SQLite, MySQL
- **Tools and Platforms:** Git, Linux, Shell, L<sup>A</sup>T<sub>E</sub>X, VSCode, Vim, IntelliJ IDEA, Postman, Docker, Fusion 360

## EXPERIENCE

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- **Michigan Mars Rover Team**

University of Michigan, Ann Arbor

**Teleoperations Lead**

*July. 2025 – Present*

- Configured **ansible** playbook and improved **documentation** ensure smooth onboarding experience
- Assisted members in **resolving errors**, learning **Git**, and completing the **Starter Project**
- Implemented **multi-websocket** communication, increased bandwidth by **8x**, decreased **latency** by **20%**
- Contributed **5** new wiki entries that detail **Frontend architecture**, framework introductions, and debugging help

**Teleoperations Member**

*Sept. 2024 – July. 2025*

- Developed and styled **6** new frontend components using **Vue.js** and **Bootstrap** later used in **Competition**
- Configured **Django** backend to communicate via **Websockets** and **ROS2** topics and services
- **Collaborated** with other branches to ensure smooth **integration**

## PROJECTS

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- **SpotifyExplorer:** React application to download, manage, and create Spotify playlists
  - Built frontend with **React** and **TailwindCSS**; backend with **Django** and **Django REST Framework**
  - Integrates **Spotify** and **YouTube APIs** to sync and manage playlists
  - Deployed **MySQL** database on **AWS RDS**, ran Application on **AWS App Runner**
  - Implemented **tag-based recommendation** system
- **PDF-GPT:** Full stack Q&A AI Agent for PDF Document Queries
  - Created an interactive chat UI using **React.js** and **Ant Design** component library
  - Implemented **REST APIs** using **Express.js** for high-performance request handling
  - Integrated **OpenAI API** using the **GPT-4o** model and **Langchain**, enabling the AI Agent to load, split, store, and modify documents
- **Site Blocker (GitHub, Webstore):** Chrome Extension to block distracting sites
  - Developed Chrome Extension using **Vue.js**, **Bootstrap**, and **Vite**
  - Implemented **Javascript** injection script to block user-specified list stored via **Chrome API**
  - Recruited **5** classmates as testers, responded and improved in accordance to **Feedback**
- **Personal Website (Link):** Personal website deployed to Github Pages
  - Created **interactive Three.js** experience using **Gsap**
  - Built with **React.js** and **TailwindCSS**, deployed to **Github Pages**
  - Implemented **Three.js** model viewer to display projects in detail