Shengran (Kevin) Jin

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Education

- **University of Michigan, Ann Arbor** — Ann Arbor, Michigan
  Bachelor of Science in Computer Engineering and Data Science; GPA: 3.96 — *Sept. 2024 – May. 2028(Expected)*

- **Georgetown Preparatory School** — North Bethesda, Maryland
  High School; GPA: 96/100 (Unweighted) — *Sept. 2020 – May. 2024*

Skills

- **Programming Languages**: Python, Java, C++, C, Javascript, LUA, SQL
- **Frameworks and Libraries**: Vue.js, React.js, Bootstrap, ROS2
- **Tools and Platforms**: Excel, Git, Linux, Shell, LaTeX, VSCode, SolidWorks, Fusion360

Experience

- **Michigan Mars Rover Team** — University of Michigan, Ann Arbor
  Teleoperations Member — *September, 2024 - Present*
  - **Frontend Developer**: Developed frontend interface using Vue.js, Bootstrap, and Python along with the Michigan Mars Rover team, aiming to improve operator experience and reliability during competition environments.

- **TJU Key Laboratory on Optoelectronic Information Technology** — Tianjin, China
  Laboratory Assistant — *August, 2023*
  - **Laser Cavities**: Studied the construction of linear and folded laser cavities and assisted in data collection from experimental procedures concerning laser efficiency and penetrative capability.
  - **OriginLab and Excel**: Utilized OriginLab and Excel to collect and compute power data from laser experiments to form graphs and statistical reports.

Research

- **Operating Speed of FDM 3D printers**: Research paper written for high school senior project on the impact of power delivery, processing capability, cooling capability on the operation of Fused Deposition Modeling 3D Printers.
- **SolidWorks SimulationXpress**: Utilized SolidWorks SimulationXpress and Fusion360 to construct high-flow toolhead for VORON 0.2 3D printer

Projects

- **Personal Website (https://kevinjin420.github.io/)**: Personal website using React.js and Bootstrap to display personal and contact information.
- **VORON 0.2 3D Printer (Github)**: Modified 3D printer based on open source VORON 0.2 design, including fully redesigned power delivery, mainboard wiring, auxiliary cooling, ultra high-flow hotend, hotend cowling, modified firmware and power-delivery parameters using Python.
- **FPV Drone**: Constructed an FPV drone using commercial hardware, custom 3D-designed parts. Drone capable of agile maneuvers and top speeds of 106mph. Used for high school cinema shoot and personal recreation and video production. Configured video and radio signal transmission using LUA.