

# Seth Baird

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## WORK EXPERIENCE

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- **SMS InfoComm**

Dallas, TX

*NVIDIA Server Repair Technician*

*May 2024 - August 2024*

- **System Repair and Troubleshooting:** Diagnosed, refurbished, repaired, and built NVIDIA HGX 8-GPU units under Wistron Corporation.
- **Hardware Validation and Analysis:** Used proprietary diagnostic tools to gain insight into the operational state of motherboard subsystems such as power delivery, signal integrity, and FPGA.
- **Servers and Information Technology:** Daily activities depended on the use of Linux, SSH, tmux, Microsoft Office, as well as strong communication and note-taking skills.

- **Jawa.gg**

Remote

*Verified Seller*

*October 2021 - August 2023*

- **Computer Sales and Commissions:** Built and sold dozens of tailored desktop, laptop, and Mac computers to end users at different price points and configurations.
- **Part Refurbishment and Sales:** Repaired, cleaned, and refurbished parts and sold them to PC builders and end users through Jawa's marketplace.
- Top 10 sellers in overall performance, recognized by CEO Amanda Stefan for driving Jawa's growth.

## PROGRAMMING AND IT SKILLS

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- **Microcontroller and IoT:**

- Leveraged a Raspberry Pi Pico and OpenSCAD-designed hardware to create an arcade style video game controller
- Designed a ceiling fan controller using a Wi-Fi capable microcontroller, Blynk API, and relays
- Created many interactive circuits in Lab based around the ATMEGA2560 using AVR Studio and pure C
- Installed a 3D printer monitoring solution using Octoprint and a Raspberry Pi with camera
- Utilized a custom CMake build system to contribute to Purdue Electric Racing's firmware repository

- **Computer Science:**

- Worked with Java and OOP at home and in school beginning in 2018, completing multiple courses over the subject
- Completed a 2 semester long course on data structures at a local vocational school
- Developed iOS apps with Swift and Android apps with Kotlin, including the use of imported libraries

- **Linux Server Administration:**

- Administrated a network of KVM virtual machines and linux containers (LXC) through hypervisor Proxmox
- Assembled two purpose built NAS computers with identical hardware, configured to make encrypted backups to each other over VPN tunnel
- Wrote custom bash scripts utilizing cron to automate full system backups and other maintenance tasks
- Leveraged a DNS server with domain filtering to block advertisements and malicious sites for all devices on the LAN

## EDUCATION

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- **Purdue University**

*Sophomore pursuing Computer Engineering Technology*

West Lafayette, Indiana

*Anticipated graduation May 2027*

- **Memorial High School**

*Graduated May 2023*

Frisco, Texas

*Unweighted GPA 3.81*

- **Noteworthy Courses Taken:** Comp. Sci. 2 (AP) & 3 (Adv.), iOS Development, AP Calculus BC, AP Physics C