Cai Chen

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Education

Iowa State University   **Ames, IA**
Computer Engineering Sophomore   *Aug 2023 – May 2026*
GPA: 3.52

Mason City High School   **Ames, IA**
Unweighted GPA: 4.0   *Sep 2019 – Jul 2023*

Projects and Extracurriculars

Portfolio Website | *React, Node, Vite, Express, Git*
- Developed a responsive and visually appealing web application using HTML5, CSS3, and JavaScript to ensure compatibility and optimal performance across different devices.
- Integrated third-party libraries (e.g. AOS, React Router, React PDF viewer) to enhance functionality and improve user interaction.
- Engineered a backend server with Express and Vercel, enabling seamless and instant messaging functionality through the contact form.

Pi Pico Keyboard | *KiCad, Git*
- Created custom schematic and PCB in KiCad that fully implements the Pi Pico microcontroller to allow for fully functional keyboard switches.
- Hand Soldered diodes, switches, and Raspberry Pi Pico in an appealing way without compromising functionality.
- Developed firmware for Raspberry Pi Pico to convert each keypress into a corresponding alphabet letter.

Dedicated Home Server | *Ubuntu*
- Flashed and programmed Ubuntu Linux to properly run a home server through CasaOS that can store and share files through the network.

Work Experience

China Buffet   **Mason City, IA**
Food Preparation and Cashier   *2014 – Sep 2020 & Feb 2023 – Aug 2023*
- Work with knives to cut meats, vegetables, and fruits to ensure there were enough for 500 or more customers for an entire day.

Prime N Wine   **Mason City, IA**
Busser and Food Runner   *Apr 2022 – Jan 2023*
- Cleaned and set tables in a quick and precise manner to preserve the fine dining experience for the diners.
- Communicated with servers and cooks to ensure adequate amount of food on the buffet during closing to prevent waste.

Walmart   **Mason City, IA**
Cashier   *Oct 2020 – July 2021*
- Handled transactions on the sales floor while communicating with customers

Skills

Languages: C, Java, Html, CSS, Java Script, Python,
Frameworks: React, Express JS
Software: Altium, SolidWorks, KiCad