

# Reeve Fernandes

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## EDUCATION

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### Michigan State University

*Bachelor of Science in Computer Engineering*

East Lansing, MI

Aug. 2021 – May 2025

## EXPERIENCE

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### GENISAMA | *FPGA, Verilog, SystemVerilog, VHDL, Design, Verification*

May 2022 – Aug. 2023

*Hardware Developer*

*Okemos, MI*

- Prototyped real-time image processing hardware system on intel FPGA, TFT Screen, and SDI protocol.
- Conducted design and virtual and physical verification of hardware design.
- Implemented documentation practices to ensure knowledge transfer

### CREATE for STEM - MSU | *CMS, Drupal, CSS, PHP, MariaDB*

Oct. 2021 – Present

*Student Tech*

*East Lansing, MI*

- Assess and troubleshoot computer problems brought by faculty and staff
- Maintain upkeep of website, computers, research equipment, and Inventory

## PROJECTS

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### Neural Network Visualizer | *Parser, React, TypeScript, Next.js, Three.js*

May 2024 – Jul. 2024

- \* Developed a custom parser for creating and training custom Multi-Layer Perceptron
- \* Three Dimensional computation graph visualization as nodes and links of the loss function, forward pass, and back-propagation

### Velox | *React, Node.js, PostgreSQL, Watson IBM, Git*

Sep. 2023

- \* Developed a real-time task management system for hospitals to streamline task assignment from doctors to PAs
- \* Integrating voice-activated task registration via IBM Watson's speech-to-text service for sterile conditions

### City Buddy | *JavaScript, Node.js, MongoDB, Mapbox, Google geocoding*

Feb. 2023

- \* Developed an Interactive map with dynamic routing
- \* Allowing users to mark and share information about dangerous streets and incidents, enhancing community safety by routing around the marked streets

### SignLink | *JavaScript, MediaPipes, Tensorflow, Peer.js*

Jan. 2023

- \* American Sign Language (ASL) Video conferencing solution
- \* Solution integrates real-time transcription using Media pipes hand gesture and TensorFlow learning model to recognize hand gestures

## TECHNICAL SKILLS

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**Languages:** Python, C/C++, SQL (Postgres), NoSQL (MongoDB), JavaScript, HTML/CSS

**Frameworks:** React, Next.js, Node.js, Three.js, Material-UI, Tailwind CSS, WordPress

**Developer Tools:** Git, VS Code, PyCharm, Quartus, Figma