# Raghav Buddhineni

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## Education

**University of Michigan** — Ann, Arbor, MI
*Bachelor of Science in Engineering in Computer Science, Minor in Business; GPA: 4.0 / 4.0* — *Aug. 2025 – May 2029*

**Nashua High School South** — Nashua, NH
*High School Diploma; GPA: 3.93 / 4.0;* — *Aug. 2021 – May 2025*

## Experience

**Software Development Intern** — May 2024 - August 2024
*Aurus Inc.* — *Norwood, MA*

- Used proprietary software solutions to install OS, software, and encryption keys to conduct security protocols for payment devices used by Fortune 500 retail clients.
- Validated device configurations and ensured compliance with customer SLAs.
- Coordinated technical tasks and supported project timelines for multiple clients.

**Founder/CEO** — March 2023 - June 2025
*Wonderbox* — *Nashua, NH*

- Co-founded WonderBox, a 501(c)(3) nonprofit dedicated to combating loneliness among seniors in care homes through personalized care packages and handwritten letters.
- Led the distribution of 100+ care boxes in Nashua and built a team of 75+ volunteers, as featured in the local newspaper.
- Spearheaded the development of new chapters nationwide to expand our impact and reach more seniors.

**Project Manager** — October 2025 - Present
*Tech 4 Social Good* — *Ann Arbor, MI*

- Leading a team of 6+ developers and designers to build a new website for *Friends in Deed*, a local Ann Arbor nonprofit.
- Facilitating weekly client meetings to define requirements, gather feedback, and ensure alignment with organizational goals.
- Overseeing both front-end and back-end development to deliver an accessible, scalable, and user-friendly web platform.

## Projects

**Varroa Mite Detection (On Github)** | *Python, Pandas* — March 2024 – August 2024

- Collaborated with Stanford Graduates to develop a machine learning model using Python, Pandas, and NumPy to process and prepare bee image datasets for analysis. .
- Designed and implemented a multi-layer convolutional neural network (CNN) with TensorFlow and Keras, training it over numerous epochs and applying data augmentation and transfer learning to enhance performance and accuracy.
- Utilized Matplotlib to visualize training progress, model accuracy, and loss metrics throughout development.

**Facial Detection Software (On Github)** | *Python, OpenCV* — June 2024 – July 2024

- Built a face detection tool using Mediapipe and OpenCV for real-time facial recognition and tracking
- Implemented machine learning techniques to identify and monitor five key facial landmarks
- Leveraged data augmentation and transfer learning techniques to boost model accuracy.
- Enhanced program versatility by allowing users to track facial movement in various scenarios

**Pesonal Portfolio (On Github)** | *React.js, JavaScript, Vite, Node.js, Vercel* — Nov 2025 – Present

- Engineered a responsive personal website using React and Vite, designing reusable components, optimized routing, and efficient client side rendering
- Integrated Framer Motion to build GPU accelerated animations and transitions, improving perceived load time and overall UI responsiveness
- Implemented a backend email handler with Nodemailer to process contact form submissions securely and connected external assets including a downloadable resume
- Deployed the application on Vercel with automated CI/CD pipelines, achieving fast build times, efficient asset bundling, and reliable production performance

## Technical Skills/Hobbies

**Coursework**: ENGR 101 Intro to Programming, ROB 101 Computational Linear Algebra, EECS 280 Object-Oriented Programming*, EECS 203 Discrete Mathematics* (* Current Coursework)
**Languages**: Java, JavaScript, Python, C++, MATLAB, Julia
**Frameworks**: TensorFlow, Keras, OpenCV
**Developer Tools**: VS Code, Pycharm
**Libraries**: Pandas, NumPy, Matplotlib
**Hobbies**: Pickleball, Tennis, Guitar, Drinking Matcha