Raghav Buddhineni

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Education

University of Michigan — Ann Arbor, MI
Bachelor of Science in Engineering in Computer Science; GPA: 4.0 / 4.0 — *Expected Graduation 2028*

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**.

Tech Analyst — January 2026 - Present
Tech Plus — *Ann Arbor, MI*

- Designed a **live, role-based operational dashboard** for **Michigan Athletics Facilities**, consolidating **10+** logs into a **single KPI snapshot**.
- Defined **15–20 key performance metrics** with **hourly to weekly refresh cadences** and secure aggregation architecture.
- Developed dashboard template piloted **across 2 facilities**, **reducing** manual reporting time by **30–40%**.

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** 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.

Personal 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.

Frat Map (Mobile App) | *Swift, Firebase, Twilio, Google Maps API* — 2025

- Designed and developed a **cross-platform mobile social application** using **Swift**, implementing features such as event discovery, friend grouping, and real-time coordination for college nightlife.
- Built map-driven functionality with **Google Maps API**, enabling live location sharing, route visualization, and proximity-based recommendations across mobile platforms.
- Implemented and tested a secure backend using **Firebase Authentication** and **Firestore** with **Twilio-based** two-factor authentication (2FA), ensuring reliable data sync and user security.
- Worked collaboratively in a small team to ship and refine core features, debug production issues, and present the application as one of **10** selected projects at V1 Demo Day.

Technical Skills

Languages: Java, JavaScript, Python, C++, MATLAB, Julia, Swift **Frameworks:** TensorFlow, Keras, OpenCV, React, Node.js **Libraries:** Pandas, NumPy, Matplotlib **Coursework:** Intro to Programming, Computational Linear Algebra, Discrete Math*, Object-Oriented Programming* (*Current) **Other:** MS Word, Excel, PowerPoint