

# JOSHUA THOMAS

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## PROFESSIONAL SUMMARY

Seeking a technical role in software development or related fields, leveraging problem-solving, technical expertise, and strong communication skills to contribute to impactful technology solutions

## EDUCATION

**Michigan State University**

*August 2020 - December 2024*

*Bachelor's, Computer Science*

*Minor, Business*

*GPA: 3.21*

- Object Oriented Programming, Data Structures and Algorithms, Database Systems, Big Data Analytics, Mobile App Development, Machine Learning, Generative AI

## SKILLS

**Skills:** Python, C/C++, Java, HTML, CSS, Data Analysis, JavaScript, MySQL, MSSQL, SQL, Android Development, PowerBI, GCP, Scikit-Learn, Tensorflow, Github, AWS S3, AWS DynamoDB, AWS IAM, AWS Lambda, AWS RDS, AWS Contact Force

## PROFESSIONAL EXPERIENCE

**Health Alliance Plan**

**Troy, MI, USA**

*Software Developer Intern*

*August 2024 - December 2024*

- Developed an innovative algorithm for parsing and filtering large JSON datasets
- Integrated cloud technology with python to efficiently store and analyze large machine-readable file data
- Built an internal web application enabling users to compare healthcare plans across multiple providers
- Trained a GPT AI model to be used as an AI chatbot specific to our application
- This application enabled HAP to reduce overspending on providers by 15%

**Emgenex**

**Ewing, NJ, USA**

*Software Developer Intern*

*June 2023 - August 2023*

- Utilized a combination of Python and SQL to make an internal reporting tool to retrieve relevant customer data
- Protected confidential information in healthcare patient portals to protect system integrity
- Participated in daily meetings to meet with supervisors to progress through the project efficiently

## PROJECTS

**Recipe Book Mobile Application**

- Created an interactive Android Studio mobile application that leverages device capabilities such as the camera
- Designed a responsive user interface, featuring both written and video tutorials for easy to make recipes
- Promoted app to college audience by integrating social media, increasing engagement through posts.

**Sketch Recognition Machine Learning Project**

- Used Convolution Neural Network and Naive Bayes machine learning models to effectively recognize hand drawn sketches
- Trained model to accuracy above 90 percent when tested on our sketch dataset

**NFL Team Winner Prediction Project**

- Preprocessed machine learning models on relevant NFL game data
- Compared correctness of multiple machine learning models in predicting winners of recent NFL games
- Trained a Random Forest machine learning model up to 80% accuracy on predicting NFL game winners

## LICENSES & CERTIFICATES

C++ programming step-by-step: From Beginner to Advanced

PowerBI

AWS Certified Cloud Practitioner (CLF-C02) Cert Prep: 1 Cloud Concepts