

Aditya Archunan Anand

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EDUCATION

Michigan State University
B.S Computer Science – GPA 3.75

East Lansing, MI
Expected Graduation May 2026

TECHNICAL SKILLS

Languages: HTML, CSS, JavaScript, Python, PHP, MySQL, Java, Kotlin, C++, TypeScript, Shell Scripts

Frameworks & Libraries: React, React Native, Node.js, Express.js, Flask, Drupal, Jetpack Compose, TensorFlow, Scikit-learn, NumPy, Pandas, Seaborn, JEST

Tools & Technologies: AWS, Firebase, MongoDB, Git, GitHub, Docker, Linux, Android Studio, Figma, Jupyter, Google Colab, MATLAB

EXPERIENCE

Application Developer | *Angular, Java, MySQL, Git, Bitbucket, Apache Tomcat, Oracle Database, Spring Boot, Agile*
Delta Dental of Michigan December 2024 -Present

- **Collaborated** with my colleague interns and full-time employees on admin side features through the Agile workflow. **Took initiative** to design and develop **REST APIs in Spring Boot** for the audit feature, and regularly updated my progress on daily stand-ups.
- Designed the API implementation on a MD doc with request and response templates covering the API route, route parameters, request headers, response template, data mappings for fields in the response to the corresponding tables and fields in the database. Designed and **optimized** the **SQL** query to get the required fields from the database.
- **Collaborated** with other full-time developers and **developed** the API endpoint to ensure providing a reliable solution, and currently developing the UI in **Angular** for the admin users to access these results whenever needed.

Student Web Developer | *PHP, MySQL, PostgreSQL, Devilbox, Object-Oriented Programming, Docker, Git, Gitlab, Linux*
Michigan State University Jan 2023 - Present

- **Developed** solutions and fixes using **PHP, MySQL, and Devilbox** to resolve 20+ technical issues in websites and assisted the team in 2 long-term projects under the Residential and Hospitality (RHS) Department using Drupal Content Management System (CMS) and Symfony framework.
- **Developed** a custom module in **PHP** using **Drupal Hooks** with **Object-Oriented Principles** to customize the output of the **XML feed** of the upcoming events at multiple venues in MSU and added it as a **git submodule** in our **Gitlab** repository and used it on different websites.
- **Collaborated** with a team of 6 developers in a project to rewrite the MSU Sports camps site from its old stack to the Drupal stack for better stability, performance, and better experience for more than 2000 end-users and site admins; **maintained** the sites by promptly solving bugs arising due to the refactoring.

PROJECTS

Targetist | *React Native, Expo, AWS EC2, Amazon EventBridge, AWS Amplify, AWS Lambda, Python, Shell Script, CI/CD, MongoDB, Node JS, Express JS, Git, GitHub, Agile development*

- **Collaborated** in a team of 4 on a startup idea to **build** an AI based task automation software strictly following the **Agile development cycle** and pitched the idea in several startup competitions to fellow students and Venture Capitalists along with product demos.
- **Developed** the User Interface of the mobile application using **MongoDB, Node, React Native** and **Expo Command Line tools** by implementing authentication using **AWS Amplify**, and calling the API written by the other team members for database operations.
- **Collaborated** with the team to develop the machine learning model to efficiently score and schedule tasks in python, and setup a highly available, durable, and scalable architecture with **AWS services (Amazon SQS, Amazon EventBridge, AWS Lambda and Amazon Sagemaker)**, connected to the Mongo DB Triggers, and enabled **CI/CD automation** with GitHub actions workflow and **shell scripts**.

CrashEye Crash Detection System | *Mongo DB, Express JS, Node JS, React, Electron JS, AWS EC2, Git, GitHub*

- **Collaborated** with a team of 3 to develop an AI based software crash detection system using **MERN stack** (frontend) and **Python** (backend) which empowers developers to swiftly identify and categorize the type of software crash that occurred in users' system eliminating the need for manual report submissions and significantly streamlining the development process.
- **Developed** the frontend using the **MERN stack** and executed it in the desktop using **electron JS**, by developing the authentication mechanism and the data extraction on an **Express JS** and **Node JS REST API** and building the client-side using **React JS** and using the **Axios** library to make different requests to the API and **hosted** it on **AWS EC 2** virtual server.

Amazon Clone | *Next JS, NextAuth, Redux, Stripe Payments API, Google Cloud, Webhooks, Firebase, Git, GitHub*

- **Built** a clone of the Amazon website using **Next.js** on the frontend, added products to the website using **Fakestore API**, **authenticated** users through the Google Authentication Provider from **NextAuth.js**
- **Created** a **Redux store** to contain the items added by the user to the basket, and used the library to keep the basket stored in the user's local cache to make it accessible any time they want, added **Stripe API** to the site to handle payments and order storage using **webhooks**.
- Used **Google Cloud** Functions to create an Application Default Credential using a service account key to access the Firebase database and display a user's previous orders.

ACHIEVEMENTS

- **International Tuition Grant (MSU) – 2022 – 2026**
- **AWS Certified Developer Associate**