NISCHAL GOWDA

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EDUCATION

University of Maryland - College Park — Aug. 2020 – Present
Bachelor of Science in Computer Science 2023

TECHNICAL SKILLS

Languages: Python, Go, Java, JavaScript, TypeScript, SQL (Postgres), HTML/CSS, C/C++
Frameworks: React, Node.js, Next.js, Flask, JUnit, Jest
Technologies: Git, Docker, Agile Development, Redis, CI/CD, UNIX/Linux

EXPERIENCE

Open Source Creator and Maintainer — Sept 2020 – Present
GitHub & npm — *Remote*
- Developed AegisNet and docktor, active open source projects that monitors requests on http servers and adds supports/healthchecks to running docker containers respectively.
- Implemented CI/CD pipeline with GitHub actions and travis that uses custom unit testing made in Jest and Go testing for each push, pull or release on master branch.
- Collaborated and worked with other developers to meet feature requests and to improve code quality.

Programming Mentor — June. 2018 – Aug 2018
Independent Work — *Princeton, New Jersey*
- Helped teach fundamental programming techniques such as loops, logic, and classes to younger students in local area.
- Worked with students in creating basic websites in HTML and JavaScript. Answered questions and explained any concepts needing explanations.

Website Designer and Volunteer — Dec. 2016 – Jan 2017, March 2018 – April 2018
Akshaya Patra — *Bangalore, India – Remote*
- Helped design a revamped website that successfully drew in more donations for the non-profit organization.
- Collaborated with other students on features and designs to develop content for the website.

PROJECTS

FaceMe | *Python, Flask, React.js, Firebase, Google Cloud Vision API* — Mar 2021
- Submission for AstraZeneca's Neurodiversity Hackathon.
- Developed a full-stack web application that helps people diagnosed with Prosopagnosia by filtering users they meet with AI recognized facial features.
- Created a RESTful API with Python and Flask that was consumed by a frontend made in React. Images were also stored and retrieved in Firebase.
- Used the Google Cloud Vision API to detect facial features of supplied images so the user can reference when meeting someone and forgetting their name.

TweetCode | *JavaScript, Node.Js, React, PostgreSQL, Docker, Docker Compose* — August 2020 – Present
- Developed a full-stack website that uses a fast sharing code environment to allow users to collaborate with others and request and review code segments.
- Created a RESTful API with Node.js and Express that was consumed by a frontend made in React
- Implemented JSON web tokens and Google and GitHub Oauth for security and authentication.
- Used a PostgreSQl database to manage and store data and Redis for caching.

Autocut Pro | *Python, PyTorch, OpenCV, NumPy* — June 2020 – Present
- Created a program that allows users to implement an autonomous workflow for video editing, using Object Tracking and Motion Detection.
- Implemented a Motion Detection algorithm that caclulates the frames with greatest percentage of motion in a video clip using OpenCV and NumPy.
- Utilized an object tracking deep learning model to identify objects along a sequence of frames.