Shubh Vashisht

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Education

- **University of Massachusetts, Amherst**   Amherst, MA
- Bachelor of Science, Computer Science (GPA: 3.703/4.000)   Expected Graduation: December 2022

Technical Skills

- Python, Java, HTML/CSS, C++, C, JavaScript
- Nodejs, Django, Express, React, Redux

- Git, Linux, Docker, Heroku, MLab, Firebase
- MongoDB, SQL, PostgreSQL

Relevant Coursework

Basic Data Structures and Object-Oriented Design, Programming using Java, Programming Methodology and Design Patterns
Mathematics for Algorithms and Discrete Mathematics, Algorithm Design and Network Flows, C Programming

Experience

Hofars (Energy and Tech Startup) (SWE Intern)   **06/2021-8/2021**
- Leader of RMS Module Project for Human Resource Management Software. (React and Nodejs)
- Coded both the frontend and the backend for the module using React and Node.
- Worked in agile scrum setting in team of 10 members.
- Managed authentication, authorization and input validation for the software.

Security Monitor, Residence Hall Security, UMASS Police Department   **11/2019-03/2021**
                                                                                                                          Amherst, MA
- Supervised dorms with student population of more than 800.
- Communicated with the UMass Police department at time of emergency and coordinated plan of action when required.
- Coordinated with supervisors and resolved important issues at hand that required immediate attention.

Course Projects

- **Employee Referral Web Application (React, Express, PostgreSQL)** https://github.com/Ctrl-Alt-Elite-CS320   **09/2021-12/2021**
  - Initiated REST – API server using Node.js, express and PostgreSQL.
  - Implemented authentication and authorization using JSON web tokens and by creating authentication middleware.
  - Composed reusable frontend components using react.
  - Performed frontend- backend integration using Axios.

Personal Projects

- **Full Stack Tourism Website (React, Node, MongoDB)** https://github.com/shubh-vashisht/SurfsUp-FrontEnd   **06/2021**
  - Designed both frontend and backend of a tourism website that promotes business for a fictional beach.
  - Used React, CSS and HTML for front end and Node, Express and Mongo DB for the backend and connected the two using Axios.
  - Implemented routing, input validation from the client using Joi library, and MongoDB data validation using mongoose.
  - Designed, created and coded a fully functional website in 40 hours, in a team of 2, while learning the essentials of full stack web development.

- **Python Image Processing Library (Python) "PySvap"** https://github.com/shubh-vashisht/PySvap   **05/2021**
  - Created a Python Image Processing Library that works by manipulating individual pixel's RGB values.
  - Implemented 15 different functionalities such as Gaussian Blur, Pixelate, and Saturation.
  - Uploaded the package on PYPI website using modules including twine and setup.

- **RESTful API with MongoDB Database (Nodejs, Express, MongoDb)** https://github.com/shubh-vashisht/REST-Api-MongoDB **05/2021**
  - Authored a RESTful API using node.js and 4 libraries namely Express, Nodemon, Mongoose and Joi.
  - The API deals with 4 basic CRUD operations, input validation and maintains a database using Mongodb.

- **JavaScript Library "MoralFibre" (JavaScript)** https://github.com/shubh-vashisht/moralfibre   **04/2021 – 05/2021**
  - Launched a JavaScript Library on NPM that provides over 27 functions that supports favorite workaday functional helpers: map, filter, invoke and also incorporates 15 more specialized methods such as function binding and JavaScript templating.
  - These functions help in reducing coding time and also in writing cleaner code.

Certifications

- **JavaScript (Intermediate) Certification on HackerRank**
- **Problem – Solving (Basic) Certification on HackerRank**
- **React (Basic) Certification on HackerRank**
- **Node (Basic) Certification on HackerRank**
- **Completion of Docker Course Certification by Mosh Hamedani**