

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
- Git, Linux, Docker, Heroku, MLab, Firebase
- Nodejs, Django, Express, GraphQL, React, Redux
- 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, Natural Language Processing, Software Engineering

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://surfsup-808c9.web.app/> 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