Shaunak Juvekar

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Education

Master of Engineering in Computer Science   Blacksburg, Virginia
Virginia Tech (3.66/4)   *Expected May 2024*
- Courses: Information Storage and Retrieval, Data Analytics, Network Architecture and Programming

Bachelor of Engineering in Electronics and Telecommunication   Maharashtra, India
Savitribai Phule Pune University (3.6/4)   *May 2018*
- Relevant courses: Data Structures and Algorithms, Object Oriented Programming, Computer Networks, Artificial Intelligence, Digital Image Processing

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Skills

Languages: JavaScript, Python, Java, C, Lua, MATLAB
Web Technologies: Node JS, Flask, React JS, HTML, CSS, Bootstrap, Semantic UI
Database: MongoDB, PostgreSQL, MySQL
Tools: Jupyter Notebooks, Numpy, Pandas, Git, Postman, JIRA, Elasticsearch, Jenkins, Docker

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Experience

Software Developer   07/2020 – 07/2021
Gibots, Pune, India   *1 year*
- Implemented end to end solutions which includes developing APIs using ExpressJS and integration of various libraries written in Java, Javascript and Python, generating up to 90 percent savings in manpower cost.
- Built a custom Rule Engine which carries out Javascript and Regex evaluations which automated and streamlined client's processes.
- As the module lead, coordinated regular meetings with the client to discuss work status, report issues regarding implementation and get feedback on production delivery.
- Devised the architectural solution of project and collaborated with project managers for time estimation and planning.

Software Engineer   07/2018 – 03/2020
Vodafone Shared Services, Pune, India   *1 year, 8 months*
- Engineered automation solutions for Vodafone TV for their STB(Set-top Box), Web and Android platforms using Python and Lua.
- Analyzed and integrated Kaltura API's and custom logic functions in GUI and API scripts.
- Developed multi-folder data gathering scripts which parsed through XML data.

Project Intern   07/2017 – 03/2018
Aker Solutions, Pune, India   *8 months*
- Interfaced driver circuits, implemented feedback mechanisms and actuator valve control for developing a 6DOF robotic arm for an ROV.
- Implemented serial communication, socket programming and joystick control using embedded C and Python.

Projects

Search Engine for ETD data   10/2022 - 12/2022
- Implemented the backend functionality of a search engine using Elasticsearch and Python.
- Developed data ingestion scripts for Elasticsearch, search API's and logging functionality for ML models.

Reliable Packet Delivery System   11/2022 – 12/2022
- Designed and developed a transport protocol that provided reliable datagram service amidst dropped and duplicated packets and high latency environments.
- Additionally, implemented the TCP Reno algorithm for congestion control and analyzed performance under a variety of conditions.

Book Sharing Platform [Github]   05/2020-06/2020
- Developed a web application using NodeJS, MongoDB, HTML, CSS, Javascript and deployed it on Heroku servers.
- Incorporated authentication flows for users and added authorization middlewares for API security.