

Shaunak Juvekar

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Education

Master of Engineering in Computer Science

Virginia Tech (3.66/4)

Blacksburg, Virginia

Expected May 2024

- Courses: Information Storage and Retrieval, Big Data Engineering, Data Analytics, Networks Programming

Bachelor of Engineering in Electronics and Telecommunication

Savitribai Phule Pune University (3.6/4)

Maharashtra, India

May 2018

- Relevant courses: Data Structures and Algorithms, Object Oriented Programming, Computer Networks, Artificial Intelligence, Digital Image Processing

Skills

Languages: JavaScript, Python, Java, C, Lua, MATLAB

Web Technologies: Node JS, Flask, React JS, HTML, CSS

Datastores: PostgreSQL, MySQL, MongoDB, Elasticsearch

DevOps: AWS, Docker, Linux

ML and Data: Pandas, NumPy, Apache Spark, Matplotlib, Scikit-learn, Seaborn

Tools: Git, Postman, JIRA, Jenkins

Experience

Software Developer

Gibots, Pune, India

07/2020 – 07/2021

1 year

- Implemented end to end RPA solutions by developing APIs using ExpressJS and integrated Java (Apache PDFBox), Javascript (Officegen) and Python (PdfPlumber) libraries, generating up to 90 percent savings in manpower cost.
- Built a custom Rule Engine for Javascript and Regex evaluation 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

Vodafone Shared Services, Pune, India

07/2018 – 03/2020

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

Aker Solutions, Pune, India

07/2017 – 03/2018

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 [\[Link\]](#)

10/2022 - 12/2022

- Implemented the backend functionality of a search engine using Elasticsearch and Python for 30K ETD's - Electronic theses and dissertations.
- Developed data ingestion scripts for Elasticsearch, search API's and logging functionality for ML models.

Reliable Packet Delivery System [\[Github\]](#)

11/2022 – 12/2022

- Designed and developed a transport protocol that provided reliable datagram service amidst dropped and duplicated packets and high latency environments.
- Implemented the TCP Reno algorithm for congestion control and analyzed performance under a variety of conditions.

Ride Sharing Platform [\[Github\]](#)

03/2023

- Designed and implemented a scalable AWS architecture for a ride-sharing application, utilizing AWS CodeCommit, AWS Amplify, DynamoDB and AWS Lambda.
- Ensured security and authentication using HTTPS and API Gateway with Cognito user pool authorization.