

SHAUNAK JUVEKAR

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EDUCATION

Virginia Tech

May 2024

Master of Engineering in Computer Science (3.9/4.0)

Blacksburg, VA

Courses: Information Storage and Retrieval, Big Data Engineering, Data Analytics, Networks Programming, Software Engineering, Web Development, Software Project Management

Pune University

May 2018

Bachelor of Engineering in Electronics and Telecommunication (3.6/4.0)

Pune, IN

Relevant courses: Data Structures and Algorithms, Object Oriented Programming, Computer Networks, AI

TECHNICAL SKILLS

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

Web Technologies: NodeJS, Flask, ReactJS, VueJS, HTML, CSS

Datastores: PostgreSQL, MySQL, MongoDB, DynamoDB, Elasticsearch

DevOps and Tools: Docker, Kubernetes, Linux, Git, Postman, JIRA, Balsamiq, Wireshark

ML and Analytics: Pandas, NumPy, D3.js, Matplotlib, Scikit-learn, Seaborn, Apache Spark

EXPERIENCE

Mediaocean

June 2023 – Aug. 2023

Software Engineer Intern

New York, NY

- Spearheaded the implementation of a thumbnail generation service using AWS Lambda, AWS S3, Python, FFMPEG, GraphQL, and ReactJS.
- Ensured code quality through comprehensive unit testing (100% coverage) with Unittest.
- Efficiently addressed and troubleshooted ReactJS and Flask bugs in production.

Gibots

July 2020 – July 2021

Software Developer

Pune, IN

- 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% savings in manpower cost.
- Built a custom Rule Engine for Javascript and Regex evaluation which automated and streamlined client's processes.

Vodafone

July 2018 – March 2020

Software Engineer

Pune, IN

- Engineered automation solutions for Vodafone TV for their STB, Web and Android platforms using Python and Lua.
- Developed scripts for GUI, Kaltura API's and data gathering.

RESEARCH EXPERIENCE

Graduate Research Assistant, VT [GitHub]

Sept. 2023 – Dec. 2023

- Developed 3-D visualizations for electric fields in molecules using arc files and the projected electric field data as a part of Dr. Welborn's research group.
- Performed data analysis on molecules using Pandas, Plotly, Numpy and Seaborn libraries.

Research Assistant, VT [GitHub] [Link]

Feb. 2023 – July 2023

- Led the development of SWEEP, a web-based tool for Municipal Solid Waste management. It enables users to efficiently determine the optimal number, sizes, and strategic locations of facilities, resulting in a comprehensive execution plan.
- Deployed the robust tech stack of ReactJS, OpenStreetMap APIs, Bootstrap, and Python Flask on a Kubernetes cluster after Dockerizing the application.

PROJECTS

Search Engine for ETD data [Link]

Oct. 2022 – Dec. 2022

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