Rajvi Patel

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EDUCATION

M.S. Computer Science Jan 2024 - Expected 2026
Arizona State University, Tempe, AZ

B.Tech in Information and Communication Technology Jun 2017 - May 2021
Ahmedabad University, Ahmedabad, Gujarat 3.25 GPA

TECHNICAL SKILLS

Programming Languages: C/ C++, Python, Golang, JAVA, ReactJS, JavaScript, TypeScript ,NodeJS, MATLAB, MySQL, HTML, CSS
Hardware: Raspberry Pi, FPGA, Arduino, ATmega 32 AVR Microcontroller
Frameworks/Tools: Django, Flask, Selenium webdriver, AWS, GCP, Docker, Kubernetes, Jenkins, GraphQL, Splunk, Elasticsearch, Git, Linux, Shell (Bash/Zsh), LABView, Xilinx ISE, LaTex, Matlab
Libraries: OpenCV, Keras, NumPy, Pandas

PROFESSIONAL EXPERIENCE

Crest Data Systems Pvt. Ltd., Ahmedabad, India: Senior Software Engineer Jan 2021 - Nov 2023
Responsible for developing solutions and leading end-to-end project operations, including gathering client requirements, estimating necessary work, suggesting delivery schedules, and delivering the final product to the client.

- Designed a Selenium script to automate lens migration task thereby **increasing efficiency by 76%**.
- Designed and implemented over 10 Elasticsearch integrations, enhancing Security and Observability functionalities.
- Built Splunk to ELK migration tool using ReactJS and Flask frameworks to migrate Splunk dashboards and searches into elasticsearch, resulting in an exceptional **88% reduction in customer effort** for data transition processes.
- Led the team of seven developers and developed out-of-the-box searches, dashboards, detection rules, and incident reports framework in Elasticsearch using ReactJS and Django to dynamically assess and monitor the real-time effectiveness and compliance status of PCI DSS requirements.
- Utilized JIRA project management software for monitoring project progress and Git for effective version control.
- Mentored and provided comprehensive training to interns on Golang and Elasticsearch; created training materials, hands-on sessions, and conducting thorough code reviews with constructive feedback.
- Recognized with **"CAP Award"** for designing algorithm to identify outliers with 100% accuracy in Elasticseach

PROJECTS

Face-Mask Detection system Sep 2020 - Nov 2020

- Developed an AI-powered facemask detection system using YOLO pretrained model and MobileNetV2 to accurately detect whether or not people are wearing facemasks using video from surveillance camera. Leveraged Flask (1.1.2) framework for developing a face mask detection application and deployed it on GCP's Compute Engine.

Estimating the effect of climate change on sea level using ML Jan 2020 - Mar 2020

- Developed a comprehensive sea level rise prediction model for both local (San Francisco) and global areas using advanced data analytics techniques. Employed three distinct regression algorithms—Random Forest, Support Vector Regression, and Neural Network—implemented through MATLAB.

Internet Radio - Multicasting multimedia over IP Sep 2019 - Nov 2019

- Implemented IP Multicast through C programming, incorporating socket programming and multi-threading. Developed an Internet Radio system featuring multiple stations and a client-based GUI for Play, Pause, Stop, and Record functionalities.

Linear Discriminant Analysis of 32*32 Grayscale Image on FPGA Sept 2018 - Dec 2018

- Designed an LDA algorithm for grayscale images using MATLAB programming. Translated the MATLAB code into Verilog within Xilinx ISE, enabling the integration of software and hardware. Deployed the Verilog code onto an FPGA for hardware-based execution of LDA.

EXTRACURRICULAR EXPERIENCE

- Demonstrated exceptional contribution to **Elasticsearch open source development**, ranking among the **top 10**.
- Completed **Neural Networks and Deep Learning course** by Andrew Ng. offered through Coursera
- Completed **30 Days of Google Cloud** program in 2020