RAJVI PATEL

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EDUCATION

ARIZONA STATE UNIVERSITY   **Tempe, AZ, United States**
Master of Science in Computer Science   **Jan 2024 - Dec 2025**
Ira A. Fulton Schools of Engineering
  Relevant coursework: Algorithms, Software Security, Cloud Computing, Software Project/Process and Quality Management

AHMEDABAD UNIVERSITY   **Ahmedabad, Gujarat, India**
Bachelor of Technology in Information and Communication Technology   **Jun 2017 - May 2021**
School of Engineering and Applied Science

TECHNICAL SKILLS

Fundamental Concepts:	Design Patterns, Data Structures and Algorithms, Operating Systems, OOP Concepts
Programming Languages:	Java, Python, JavaScript, Typescript, Golang, C++, C#, C, SQL
Web Technologies:	React.js, Angular, Node.js, Vue.js, GraphQL, AJAX, Redux, Flutter, HTML, CSS, Bootstrap
Databases:	PostgreSQL, MySQL, MongoDB, SQLite, Elasticsearch, Firebase, Google Cloud's BigQuery
Tools and Frameworks:	Elasticsearch, Logstash, Kibana, Splunk, Keras, Tensorflow, NLTK, AWS, Jira, Docker, Cypress

PROFESSIONAL EXPERIENCE

DigInG, Arizona State University   **Tempe, AZ, United States**

Software Engineer | *Python (Django), JavaScript, Vue.js, PostgreSQL, RESTful APIs*   **Feb 2024 - Present**
- Optimized **MongoDB** queries, slashing response times by 20% and improving overall system performance.
- Improved map load times by implementing **asynchronous** data fetching and paginated API to handle 4GB+ of data.
- Developed **RESTful APIs**, performed integration and unit testing using **PyTest**, achieving 10% higher test coverage.
- Implemented **JWT**-based token authentication in Conceptpower, enabling secure third-party API integrations.

Crest Data Systems   **Ahmedabad, Gujarat, India**

Software Engineer | *Python (Django), React.js, Docker, Typescript, Elasticsearch, Kibana, Celery*   **Jun 2021 - Nov 2023**
- Engineered Splunk to Elasticsearch migration tool using **Python** and **React.js** reducing data transition effort by 88%.
- Enhanced regression test automation with **Selenium**, detecting critical bugs 2x faster and boosting release stability.
- Collaborated with 5+ developers to build an OpenAI connector in **Kibana**, integrating advanced analytics capabilities.
- Designed Rapid7 integration for **Elasticsearch**, streamlining threat detection workflows, resulting in 3k+ downloads.
- Utilized **Python** to migrate visualizations and alerts from Sumologic to Elasticsearch, saving 60% infrastructure costs.
- Recognized with the **Crest Achievement Program award** for designing an outlier detection algorithm, reducing false positives and enhancing anomaly detection for over 1 million daily events.

Software Engineer Intern | *Python (Flask), React.js, GraphQL, MongoDB, Nginx, Docker*   **Jan 2021 - Jun 2021**
- Refined employee portal using **Python** and **React.js** in cross-functional collaboration, optimizing 60% performance.
- Orchestrated the **Docker** deployment strategy, decreasing the deployment time from 40 minutes to 7 minutes.

PROJECTS

Autoscaling System with Dynamic Queue Management | *Python, Fast API, SQS, S3, EC2*   **Oct 2024 - Dec 2024**
- Built an autoscaling face-recognition system using **Python** and **Fast API** handling up to 10k+ requests per hour.
- Devised an autoscaler monitoring **SQS** queue length to dynamically scale instances for efficient processing.

Visual Image Manipulation and Enhancement | *Java, JavaFX, Swing, Object Oriented Design*   **May 2024 - Aug 2024**
- Constructed a **Java** system with **Swing** UI, **SOLID** principles, design patterns, improving code efficiency by 50%.
- Tested end-to-end flow using **Test Driven Development** to ensure intended behavior with >80% test coverage.

Sea level Information System | *ASP.NET MVC, Entity framework, CSS, JavaScript, Bootstrap*   **Nov 2023 - Dec 2023**
- Developed an **ASP.NET** MVC app with Entity framework and admin panel with data accessibility increased by 30%.
- Orchestrated engaging front-end with **JavaScript** and **Bootstrap**, hosted on Azure Cloud to enhance usability.

ACHIEVEMENTS

- Honoured as **Elastic Bronze Contributor 2024** for resolving 180+ issues in the Elasticsearch open source repository.
- **Elastic certified engineer** with expertise in installing, managing clusters, and developing advanced search solutions.