

YUGMA PATEL

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EDUCATION

Master of Science in Computer Science August 2023 - May 2025
Arizona State University, Courses: Software Testing & Security, Concepts of Agile and Scrum GPA: 3.50/4.00

Bachelor of Technology in Computer Science and Engineering July 2019 - May 2023
Nirma University, Courses: Object-Oriented Programming, Data Structures and Algorithms GPA: 8.4/10

PROFESSIONAL EXPERIENCE

Software Developer January 2025 - August 2025
XpertDox LLC Arizona, USA

- Built dashboards and a ticketing system using **AWS, MongoDB, TypeScript and Next.js**, improving task tracking efficiency by 35% and reducing client issue resolution time by 28%.
- Led the migration of a large-scale file storage system from **Dropbox APIs** to **Google Cloud Filestore**, reducing file access latency by 40%, improving system uptime, and cutting storage costs by 25%.
- Designed and implemented a **Redis-backed job queue** system with priority-based task routing to distribute production jobs across machines, reducing job latency by 40%.

Software Developer December 2023 - December 2024
School of Earth and Space Exploration - Arizona State University Arizona, USA

- Collaborated with NASA scientists to build an interactive Mars data visualization tool using **Python, Dash, and Flask**, improving analysis efficiency by 40%.
- Developed a Mars map using **TiTiler and Dash Leaflet**, optimizing 1+ TB of data handling and improving response time by 30%.
- Deployed the Mars visualization tool using **Docker, Terraform and Kubernetes**, enabling seamless access for researchers and supporting the analysis of large Mars datasets with **99.9% uptime**.

Software Development Intern January 2023 - July 2023
Silver Touch Technologies Limited Gujarat, India

- Developed over 30 RESTful APIs for Spikizi using Python, Django, and PostgreSQL, **optimizing queries by 30%** and automated testing with Selenium, and utilized Postman, Git, and GitHub.
- Integrated Stripe for secure payments, Google Cloud SDK for seamless audio uploads, and Google OAuth for authentication, enhancing user experience, **increasing engagement by 25%**.
- Designed and developed the backend of a Crypto Wallet application using Node.js and Docker, implementing seven key features with frontend integration through Angular, **improving user security and accessibility**.

PROJECTS

Microservices-Based Chat Platform | Springboot, Docker, Kubernetes, Kafka, GCP SQL May 2024 - August 2024

- Designed a **microservices-based backend system** to address the need for secure user authentication, messaging, and media handling, aiming to support **over 10,000 concurrent users**.
- Developed four core microservices—Authentication, Messaging, Upload, and Notification—by using JWT for secure login and WebSocket for real-time text messaging achieving a **20% reduction in latency** through Kafka.
- Deployed the platform using CI/CD pipelines and container orchestration, resulting in a **30% increase in deployment speed** and **15% reduction in server costs**.

JobSuccess.AI Platform | Typescript, React, Node, Express, Google APIs, Jenkins, AWS March 2024 - May 2024

- Developed a full-stack job application platform allowing over 1,000 candidates to apply for jobs and 100+ recruiters to post listings and manage applications, streamlining the hiring process for both parties.
- Integrated **Firebase** for user authentication and cloud storage, **AWS S3** for secure handling of over 2,000 resumes, and **Large Language Model (LLM) APIs** to analyze resumes, providing recruiters with detailed insights.
- Implemented **CI/CD pipelines** using **Jenkins** for automated testing and deployment, managing version control with Git and GitHub, reducing deployment times by 40%.

Real-Time File Converter | Python, AWS CDK, S3, DynamoDB, Lambda, React, EC2 January 2024 - March 2024

- Designed a file processing workflow using AWS services, enabling users to upload and retrieve converted files via a React frontend.
- Automated data handling with **Lambda functions** to log user details and file paths in **DynamoDB**, while initiating EC2 instances to execute Python scripts for file conversion, **enhancing performance by 32.5%**.

TECHNICAL SKILLS

Languages	Python, Java, C/C++, JavaScript, C#, Rust, Golang, TypeScript
Frameworks	Springboot, NodeJS, ReactJS, ExpressJS, Flask, Django, Next.js, Vue.js, ASP.NET Core
Database and Storage	MySQL, MongoDB, PostgreSQL, AWS S3 Buckets, AWS DynamoDB, GCP Filestore, Azure Blob
Other Skills	GraphQL, HTML, CSS, Maven, Linux, RabbitMQ, Unix, Distributed Systems, Elastic Search, Cypress, Grafana, JSON, MVC, Prometheus, Ansible, SVN, XML, Splunk, TDD, Jira, Redux, NoSQL, Snowflake, SDLC, ETL Pipelines, REST, SOAP, gRPC, TDD, SQLAlchemy, ECR, EKS, ROS