Arpitha Sheshadri Bhat

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SUMMARY

Results-driven Full Stack Developer and Cloud Engineer passionate about building scalable systems. Skilled in architecture design, workflow optimization, and automation. Strong problem-solver, effective communicator, and team collaborator.

EDUCATION

Northeastern University   Boston, MA
Master of Science in Information System   *Expected May 2025*
Related Courses: Web Design/UX Engineering, Network Structure & Cloud Computing, Database Management and Database Design, Smartphone-Based Web Development, Design Patterns, Program Structure and Algorithms

PES Institute of Technology   Bengaluru, India
Bachelor of Engineering in Information Science   *August 2021*
Related Courses: Object-Oriented Programming, Unix & Shell Scripting, Machine Learning, Data Structures & Algorithms

TECHNICAL SKILLS

Programming Languages: C, Java, Python, JavaScript, TypeScript, Shell Scripting, PHP, Go , Swift, SQL
Web Technology: Node.js, HTML, CSS/SASS, REST APIs, Redux, Microservices, Elasticsearch, WebSockets
Frameworks: Express, React, Spring, Angular, Flask, FastAPI
Cloud and DevOps Tools: Docker, Kubernetes, Jenkins, CI/CD, AWS, Google Cloud Platform, Azure, Terraform
Databases: MySQL, MongoDB, PostgreSQL, Redis, MS SQL, NoSQL
Other Tools: Git/Gitlab, Agile Methodologies, Jira, Linux, Windows, Azure DevOps, Prometheus, Grafana

EXPERIENCE

TGS-NOPEC Geophysical Company   June 2024 – August 2024
Cloud Development Intern   *Houston, TX*
- Implemented a cloud-based data ingestion pipeline using EMQX MQTT and GCP Pub/Sub for real-time IoT data streaming
- Orchestrated data processing and storage with Cloud Functions, BigQuery, and Terraform to enable automated, scalable infrastructure
- Engineered a Redis-based alert system for sensor thresholds and created interactive visualizations with GCP Looker Studio to enhance data analysis and decision-making

Perfios Software Solutions   August 2021 – August 2023
Software Development Engineer — Fullstack Web Development   *Bengaluru, India*
- Integrated JSON schema-based rendering in React, expediting POC delivery by 20%
- Automated insurance claims processing with a Python parser, reducing overall claim processing time by approximately 20-30%, depending on document type
- Developed a microservices-based architecture using Java and Spring Boot with a state machine for service orchestration
- Engineered a data pipeline microservice using Flask to process customer feedback, enabling data-driven model training and improving model accuracy by 4%
- Utilized Elasticsearch to streamline insurance data extraction, enhancing processing efficiency
- Built AWS data lake, boosting data processing efficiency by 15%

PROJECTS

Real-Time E-Commerce Event Processing Platform | *Kafka, Kubernetes, GCP*
- Designed a scalable event processing platform with Kafka for real-time streaming, Kubernetes for orchestration, and cloud services for improved performance and availability
- Deployed containerized microservices (Kafka producers, stream processors, consumers) for real-time data
- Integrated Prometheus and Grafana for monitoring, and automated Kubernetes deployments with CI/CD pipelines

CloudTier: Terraform Orchestrated RESTful Service | *GCP, Node.js, PostgreSQL, Packer, Terraform*
- Created Node.js backend with PostgreSQL and Sequelize ORM for efficient data management
- Utilized Terraform for Infrastructure as Code (IaC) to manage scalable VPC network on Google Cloud Platform
- Implemented CI/CD pipelines with GitHub Actions for automated testing and deployment
- Configured load balancing and autoscaling services for dynamic resource allocation and high availability

Voyage | *MongoDB, Express, React, Node.js, WebSockets, Amazon EC2*
- Spearheaded website development, integrating real-time notifications through WebSockets to enhance exclusive deal delivery
- Introduced the "Mile Points" feature, enabling users to accumulate points more intuitively, with seamless payment processing via Stripe integration
- Improved UX with Redux for efficient state management, ensuring smoother interactions, and deployed the app on Amazon EC2 for scalability