

Vamshi Krishna Ginna

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Summary

Software Engineer with over 5 years of experience specializing in backend development, cloud technologies, and full-stack web solutions. Proficient in designing and deploying scalable web applications using Java, Node.js, React.js, Angular, AWS, and GCP, with a focus on data privacy. Adept at leveraging technology to address complex challenges, drive innovation, and deliver significant business impact.

WORK EXPERIENCE

Software Developer | *Ardent Privacy, United States*

Aug 2023 – Present

- Led transformation of on-premises system to SaaS based web application, enhancing privacy compliance, supporting 100+ tenants, and reducing database query times by 80% through intelligent caching techniques.
- Contributed to NLP and AI initiatives, developing metadata-based data discovery model, leveraging LangChain AI agents, and enhancing data privacy risk identification accuracy by 20%.
- Developed the backend system for a cookie and consent module, ensuring compliance with GDPR and CCPA regulations.
- Led architectural optimization using TDD to deliver high-performance GraphQL APIs secured with JWT authentication, Sequelize as the ORM, resulting in 40% increase in application efficiency and enhanced dynamic data retrieval.
- Designed robust notification center with WebSockets for real-time alerts to 5000+ active users.
- Successfully deployed app on AWS, managing multiple instances with AWS Auto Scaling Groups (ASG) for high availability, and achieved 15% reduction in latency through refined EC2 instance orchestration using CI/CD pipelines.
- Created PDF generator automating privacy assessment and compliance reports, streamlining business process by 20%.
- Collaborated on Angular application development, enhancing UI/UX design, and ensuring robust functionality through extensive unit testing and implementation of Angular best practices.

Assistant System Engineer | *Tata Consultancy Services, India*

Jan 2021 – Aug 2022

- Ideated a Python automation to handle recurring failures of data-object transfer, increasing the customer experience by 12%.
- Designed Java (Spring Boot) APIs, integrating JPA and Hibernate for efficient data management, reducing query latency by 20%.
- Elevated AWS-based infrastructure, deploying scalable microservices with Docker and Amazon ECS (Elastic Container Service), achieving 99.9% uptime, and lowering operational costs by 15% through optimized AWS resource utilization.
- Provided technical leadership and mentorship to 5+ junior developers, fostering a collaborative and innovative environment.

Software Development Engineer | *Ezerka Technology Solutions, India*

Jun 2019 – Dec 2020

- Engineered and integrated over 50 REST APIs using Express Js and Node Js for an inventory management application.
- Designed and built a React Js dashboard that displays metrics like daily sales, best-selling products, and low inventory items on charts and graphs using Chart.js.
- Played an integral role in onboarding, training, and mentoring 4 interns on the MERN stack, Git, and Google Cloud Platform.
- Established a shell script to monitor server health and send prompt email alerts to stakeholders, increasing the efficiency by 25%.
- Developed over 10 cron jobs to automatically install Java during server restarts and execute different applications with logging.

SKILLS

Languages: JavaScript, Java (Spring and Spring Boot), Python, C, C++, SQL, GraphQL, TypeScript

Database: MySQL, MongoDB, PostgreSQL, Cloud Firestore, CockroachDB, Elasticsearch, Sequelize, Hibernate, Mongoose

Web Development: HTML, CSS, React Js, Angular, Node Js, Express Js, Bootstrap, Material UI, Redux, Tailwind CSS, WordPress

Cloud: AWS (EC2, ECS, Lambda, S3, RDS, SQS, CloudWatch, IAM, Auto Scaling, ELB, Aurora), GCP-(Compute Engine, GKE, Cloud SQL)

Tools: LangChain AI, Git/GitHub, Bitbucket, Postman, Linux, Docker, Apache Tomcat, Heroku, Jenkins, Tableau, JUnit, Mockito, Maven, JPA, Hibernate, Design (Figma, Adobe XD, Photoshop, Canva)

Privacy & Compliance: GDPR, CCPA, FERPA, Privacy Impact Assessments, Consent and Cookie Management, Risk Management

LEADERSHIP & AWARDS

- GAAC Committe Member:** Led efforts in organizing Meet and Confer conferences, conducting health insurance awareness sessions, and advocating for graduate assistants of UMBC. (Aug 2023- May 2024)
- Software Development Mentor (TA):** Led and mentored UMBC student teams in JavaScript (React, Node.js), C++, and Java, implementing agile practices, and code reviews resulting in improved software development life cycle. (Aug 2022 - May 2024)
- Smart India Hackathon 2020:** Among 20,000+ national contestants, won first place for creating an invoice reconciliation app.

EDUCATION

University of Maryland Baltimore County

Aug 2022 – May 2024

Master's in Computer Science

Baltimore, Maryland

PROJECTS

Confidence Estimation of a Model and Explainable AI | *Python, Machine Learning, Google Colab*

LINK

- Utilized the CNN pre-trained model **ResNet 50** for classifying tumors in the scanned medical image to identify breast cancer.
- To handle the imbalanced dataset, applied the Leave-One-Out cross-validation technique which increased accuracy by 60%.

ENIMO - Energy Information and Monitoring | *Javascript, React Js, MongoDB, IoT, ML*

LINK

- Led the development of an IoT-based intelligent monitoring system using Machine Learning, engineered a scalable MERN stack backend, and designed a user-friendly frontend dashboard for real-time analytics, achieving 30% downtime reduction and significant cost savings.