Dennis Foster

Full Stack Software Developer
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Education: Western Governors University – B.S. Computer Science
Visa Status: US Citizen (no sponsorship required)

Work Experience:

(2024 – present) **Forward Deployed Engineer, FlowX.AI – New York, NY**
- Developed BPMN 2.0 compliant mission-critical financial applications within FlowX.AI proprietary platform using embedded scripting languages in backend (JavaScript/Nashorn/GraalVM, Python/Jython, Java/MVEL). Managed permissions and ACL in Keycloak.
- Developed custom backend connectors in Node.js/Express.js/TypeScript and Apache Kafka to integrate FlowX.AI applications with existing REST APIs. Worked with SQL (Postgres, MySQL) and NoSQL (MongoDB, Cosmos DB) databases to support backend (SQL queries, working with collections, data import/export, schema management).
- Developed frontend components using React SDK for integrating business applications into existing client web portal (React v19, Vite, React Router v6, JWT, keycloak). Worked with MUI (Material UI) packages to develop UI/UX components following client's design system guidelines.
- Developed and managed pre-deployment application configuration: Docker files, automated bash scripts, Harness configuration, handling secrets and environment-specific configuration.
- Followed best practices of source code version control using git/GitHub Enterprise: code commits, branch management/merge, pull requests, resolving code conflicts with other branches.
- Worked with DevOps team to run application deployment into client's cloud AWS/GCP/Azure kubernetes cluster using CI/CD pipelines and automated tools (Harness, Jenkins, ArgoCD, GitHub Actions, GitHub Webhooks). Resolved deployment process issues by troubleshooting pipelines, updating Helm charts, fixing configs, monitoring/fixing k8s ingress and services/pods issues. Maintained application dependencies, resolved package caching issues (npm, JFrog artifactory). Handled aspects of application promotion and migration to upper environments (pre-dev/dev/UAT/production).

(2019 – 2024) **Software Engineer, AccuMed Healthcare Research – Denver, CO**
- Developed scalable, highly available backend systems in PHP/CodeIgniter/Yii2, Node.js, and MySQL to analyze client's data against a terabyte-scale medical records database, focusing on reducing application latency and optimizing SQL queries.
- Developed REST API endpoints and documentation to expose backend systems (Express.js, Swagger).
- Engineered React client portal for client submission processing and final report delivery, seamlessly integrated with internal API (React v18, Tailwind, JWT, Context API, axios).
- Worked in AWS to support infrastructure and performed resource scaling (Billing Management, Cost Optimization, EC2, Route 53, ELB, Security Groups, S3, CloudFront, IAM, SQS)
- Performed system administration/package management within EC2 Linux instances (CentOS/Ubuntu updates and patches, LAMP stack, SSH access management, bash scripting/automated backups, services monitoring with Grafana/Prometheus).