Blake Link

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Summary

Skilled software developer with a solid background in designing, developing, and maintaining scalable software solutions. Using in full-stack development to create interactive and user-centric web applications. Committed to contributing to team success through meticulous project management, strong attention to detail, and superior organizational skills. Proficient in Agile methodologies and project management, with fluency in Python, JavaScript, Java, and a broad range of programming languages.

Professional Experience

Software Developer

JPG InfoTech, Falls Church, VA

June 2023 to November 2023

- Developed and maintained a dynamic dataset of business office locations using Node.js and Python, improving operational efficiency.
- Participated in Agile development processes, including sprint planning and retrospectives, contributing to the successful delivery of a bilingual taxpayer online application.
- Implemented reliable API endpoints in AWS CloudFormation and AWS Lambda for scalable cloud integrations.
- Created comprehensive test suites with Jest and Cypress to ensure high software quality and reliability.
- Collaborated with front-end developers to integrate ColdFusion applications with modern JavaScript frameworks, creating dynamic and responsive web interfaces.

- Optimized web application performance by utilizing ColdFusion's caching mechanisms, significantly reducing server load and improving user experience.
- Enhanced project transparency and team collaboration using SharePoint to document project procedures and guidelines, including run, deployment, and engineer onboarding.
- Automated the loading of processed CSV data into DynamoDB using Python, improving data accessibility and query performance for downstream applications.
- Managed and tracked progress using Jira throughout the Agile development cycle, ensuring efficiency and transparency in project execution.
- Designed and implemented dynamic, stateful user forms in a Next.js application, leveraging React's createContext API to manage form state globally, enabling a seamless user experience with real-time validation and feedback across multiple components.
- Conducted thorough accessibility testing of web applications using JAWS and other accessibility technologies, ensuring WCAG compliance and improved usability for all users.
- Performed extensive vulnerability scans on static code using SonarQube, maintaining strict code security and integrity standards.
- Designed and implemented a comprehensive monitoring solution for Kubernetes clusters using Prometheus and Grafana, enhancing visibility and control over microservices and infrastructure.
- Configured and deployed Prometheus Operator on Kubernetes, automating monitoring tasks and enabling seamless integration with Kubernetes APIs and service discovery.
- Mentored junior SRE team members in Terraform best practices, fostering a culture of automation and infrastructure as code throughout the organization.
- Designed and implemented a Terraform-based CI/CD pipeline, automating the deployment of application updates and significantly reducing time-to-market for new features.

Software Developer

Excelon Development, Allegan, MI

August 2022 to June 2023

- Supported the construction of CI/CD pipelines using Docker, Kubernetes, and Jenkins, significantly improving deployment procedures and team collaboration.
- Designed and built microservices using Flask and Python that interfaced with PostgreSQL databases to enhance data management.
- Configured Nginx as a reverse proxy to improve load balancing and application security.
- Collaborated with international teams, fostering an inclusive work environment and driving innovative solutions.
- Utilized Elasticsearch to support the functionality of several microservices, significantly improving system performance and data accessibility.
- Enhanced logging procedures and system monitoring by using Logstash to streamline log pushing to Kibana.
- Demonstrated extensive knowledge of the Linux CLI to improve development, debugging, and operational efficiency.
- Facilitated a cooperative and effective development process by assisting frontend and backend developers with support tickets and issues, including authorizing and submitting pull requests to the source repository.
- Utilized Angular alongside Redux for building scalable, stateful applications, architecting a robust state management system that facilitated predictable state updates and enhanced state synchronization across multiple components, significantly improving application reliability and user experience.
- Developed custom Prometheus alerting rules and alertmanager configurations to proactively detect and notify about performance issues, service disruptions, and resource bottlenecks.
- Utilized Terraform to automate the deployment and management of cloud infrastructure, reducing manual intervention by 70% and improving resource efficiency by 30%.
- Developed and maintained Terraform modules for creating scalable and highly available Kubernetes clusters across multiple cloud providers, resulting in a 50% reduction in cluster setup time.

Frontend Developer

New Walton Services, Columbus, Georgia

January 2022 to April 2022

- Leveraged Adobe ColdFusion for the development and management of statically generated content, enabling seamless integration and content sharing with external services.

- Configured a REST endpoint using Adobe ColdFusion to serve session tokens, facilitating secure user sessions and login processes.

- Developed accessible React components using Next.js and TypeScript to enhance user interface and user experience.

- Collaborated closely with UI/UX designers in an Agile environment to define project requirements and deliver user-focused solutions.

- Improved database interface and performance by using SQLAlchemy as an ORM for efficient data manipulation and retrieval.

- Simplified database operations and provided reliable, type-safe database access by integrating Prisma.js as the frontend database ORM.

- Developed a comprehensive customer dashboard using Next.js, enabling real-time data insights and an intuitive business analytics interface.

- Created unique, responsive web components using React, resulting in dynamic user interfaces that adapt to various screen sizes and devices seamlessly.

- Configured pre-commit hooks in the version control system to automatically examine code for errors and code style violations before pushes, ensuring high-quality code submissions.

- Integrated linters into the build pipelines to detect and enforce syntax issues and coding standards, improving code readability and maintainability across various programming languages.

- Collaborated with development teams to implement Infrastructure as Code (IaC) using Terraform, enabling version control and streamlining the release process for new features and applications.

Software Developer

Covia, Independence, OH

September 2020 - April 2022

- Developed software solutions to support logistical operations under the guidance of the Logistics Supervisor.
- Developed and maintained dynamic, data-driven web applications using Adobe ColdFusion, enhancing user experience through seamless data retrieval and manipulation.
- Utilized ColdFusion's powerful scheduling capabilities to automate routine database maintenance tasks, improving data performance and reliability.
- Implemented a scalable backend API using FastAPI and PostgreSQL to support a client's POS (Point of Sale) application and data management solutions.
- Utilized ServiceNow to submit and track support tickets more effectively, improving operational efficiency and the IT support process.
- Automated the processing of routine CSV data dumps using Pandas, significantly improving data quality and usability for analytics and reporting.
- Implemented automated UI tests using Selenium, improving product quality and user experience by identifying and fixing interface issues prior to release.
- Ensured visual consistency and adherence to design criteria across web applications by accurately implementing designs provided by the UX/UI team using CSS.
- Conducted training sessions and workshops for team members, sharing best practices and knowledge on using Prometheus and Grafana for effective monitoring and troubleshooting in Kubernetes environments.
- Leveraged Terraform to automate the provisioning and configuration of AWS resources, including EC2 instances, RDS databases, and S3

storage, resulting in a 60% reduction in infrastructure setup time and improved resource utilization.

Skills

- **Languages**: Python, JavaScript, TypeScript, SQL, C#
- **Frameworks/Libraries**: React, Node.js, Angular, Flask, FastAPI, Next.js, .NET, Blazor
- **Tools & Technologies**: Docker, Kubernetes, AWS (including CloudFormation and Lambda), Git, Jenkins, Elasticsearch, Kibana, Logstash, SharePoint, ServiceNow
- **Databases**: PostgreSQL, DynamoDB, Redis, utilizing ORMs such as SQLAlchemy and Prisma.js
- **Development Practices**: CI/CD pipeline development, Microservices architecture, API design and development, Agile methodologies (including sprint planning and retrospectives)
- **Testing Tools**: Jest, Cypress
- **Operating Systems**: Ubuntu, extensive Linux CLI
- **Other Skills**:
  - OOP (Object Oriented Programming)
  - TDD (Test Driven Development)
  - Web Development: Semantic HTML, CSS for design implementation, Responsive Web Design
  - Cloud Services: AWS cloud integrations
  - Documentation: Process and instruction documentation, Technical writing
  - Collaboration & Support: Assisting with support tickets, Pull request management, Collaborative problem-solving, Multinational team collaboration
- **Soft Skills**: Team collaboration, Agile methodologies, Problem-solving, Effective communication, Time management

Education

Information Technology *Guthrie Job Corps Center, Guthrie, Oklahoma*