

# Blake Link

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## Summary

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Accomplished software developer with experience working on projects for notable clients such as the IRS and Affirm.com. Skilled in Node.js, Python, React, and AWS cloud technologies, I have honed my expertise at innovative startups like Excelon Development and JPG InfoTech. Focused on creating scalable software solutions, I excel in team collaboration, ensuring high-quality software, and boosting productivity. By leveraging microservices architecture, CI/CD pipelines, and Agile methodologies, I ensure projects not only meet but exceed accessibility and security standards. Passionate about developing user-centric solutions, I combine frontend and backend development, automate processes, and deploy Docker and Kubernetes. With a strong foundation in information technology from the Guthrie Job Corps Center, I am dedicated to using my skills to make a positive impact in the real world.

## Professional Experience

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### Software Developer | JPG InfoTech, Falls Church, VA

June 2023 - November 2023

- Using Node.js and Python, created and maintained a dynamic dataset of business office locations to improve operational effectiveness.
- took part in sprint planning and retrospectives as part of the Agile development process to successfully produce a bilingual taxpayer online application.
- For scalable cloud integrations, reliable API endpoints were implemented in AWS Cloud Formation and AWS Lambda.
- Developed thorough test suites with Jest and Cypress to guarantee high software quality and dependability. Project transparency and

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- Regularly fulfilled all project deadlines, exhibiting excellent time management and commitment to team goals and project success.
- Python was used to automate the loading of processed CSV data into DynamoDB, ensuring smooth data integration and storage and greatly improving data accessibility and query performance for apps that come after.
- used Jira to ensure efficiency and transparency in project execution by managing and tracking progress at every level of the Agile development cycle, from sprint planning to release.
- thoroughly tested online apps for accessibility concerns using JAWS (Job Access With Speech) and other accessibility technologies. This ensured compliance with WCAG (online Content Accessibility Guidelines) and improved usability for all users, including those with impairments.
- used SonarQube to do extensive vulnerability scans on static code, making use of its extensive ruleset to find and eliminate possible security threats and uphold strict code security and integrity standards.
- incorporated PySpark into a web analytics platform to process and examine clickstream data, allowing for the real-time analysis of user behavior and performance optimization of websites.
- 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 the management of monitoring tasks, and enabling seamless integration with Kubernetes APIs and service discovery.

## **Software Developer | Excelon Development, Allegan, MI**

**August 2022 - June 2023**

- Supported the construction of CI/CD pipelines, utilizing Docker, Kubernetes, and Jenkins to greatly improve deployment procedures and teamwork.
- Using Flask and Python, I designed and constructed microservices that interfaced with PostgreSQL databases to improve data management.
- set up Nginx as a reverse proxy to enhance load balancing and application security.
- worked together with international teams, promoting an inclusive workplace and advancing creative solutions.
- Several microservices' functionality was supported by Elasticsearch, greatly improving system performance and data accessibility.
- improved logging procedures and system monitoring by using Logstash to make it easier to push logs to Kibana.
- Extensive knowledge of the Linux CLI was displayed to enhance development and debugging, improving system management and operational effectiveness.
- facilitated a cooperative and effective development process by helping frontend and backend developers with support tickets and issues, including authorizing and submitting pull requests to the source repository.
- Real-time build log analysis and aggregation made possible by the integration of PySpark scripts into Jenkins CI/CD workflows allowed for the early identification of error trends and possible deployment bottlenecks. This proactive strategy sped up release cycles and increased deployment success rates by 25%.
- Developed custom Prometheus alerting rules and alertmanager configurations to proactively detect and notify about performance issues, service disruptions, and resource bottlenecks.

## **Frontend Developer | New Walton Services, Columbus, Georgia**

**January 2022 - April 2022**

- Using Next.js and TypeScript, accessible React components were developed to enhance the user interface and user experience.

- Closely collaborated with UI/UX designers in an Agile environment to specify project needs and provide user-focused solutions.
- improved database interface and performance by using SQLAlchemy as an ORM (Object-Relational Mapping) for effective 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 thorough customer dashboard using Next.js, enabling real-time data insights and an intuitive business analytics interface.
- React was used to create unique, responsive web pieces, resulting in dynamic user interfaces that adjust to various screen sizes and devices without interruption.
- To make sure that only high-quality code was uploaded to the repository, pre-commit hooks were configured in the version control system to automatically examine code for mistakes and code style violations before pushes.
- Integrated linters into the build pipelines to detect and enforce syntax problems and enforce coding standards, improving the readability and maintainability of code across various programming languages.

## Software Developer | Covia, Independence, OH

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September 2020 - April 2022

- Under the direction of the logistical Supervisor, developed software solutions to support logistical operations.
- POS (Point of Sale) application for a client was supported by scalable data management solutions through the implementation of a backend API using FastAPI and PostgreSQL.
- ServiceNow was used to submit and track support tickets more effectively, improving operational efficiency and the IT support process.
- Data quality and usability for analytics and reporting were greatly improved by using Pandas to automate the processing of routine CSV data dumps and custom scripts for data cleansing, including null value imputation and string normalization, and transformation tasks like column renaming and data type conversion.

- Utilizing Selenium, automated UI tests were implemented, improving product quality and user experience by finding and fixing interface problems prior to release.
- Ensured visual consistency and adherence to design criteria across online applications by precisely implementing designs supplied by the UX/UI team using CSS.
- Utilized semantic HTML to structure web content, enhancing accessibility, search engine optimization, and user experience.
- 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.

## Skills

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- **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

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### High School Diploma

Guthrie Job Corps Center, Guthrie, Oklahoma

### Bachelor of Science in Computer Science

Wright Career College, Tulsa, Oklahoma

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