

Shaun Smith

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Profile

Results-driven software developer with over 5 years of experience building scalable solutions. Proficient in multiple programming languages including JavaScript, TypeScript, Python, C#, Java, and Ruby, with a strong emphasis on design patterns and clean code principles. Experienced in leading integration development projects and ensuring alignment with enterprise strategies. Seeking to leverage expertise and leadership skills to drive impactful software development projects.

Work Experience

Software Engineer I, April 2023 - Present | *Travelers, Hartford CT*

- Designed and implemented web app and service integrations with Okta, transitioning existing applications to an OAuth2 model using PKCE flow, enhancing security and user authentication processes.
- Awarded Innovative Solutions on delivering OAuth2 redesign for identity based applications.
- Developed a modern UI and REST API for business insurance user profiles utilizing React.js and Node.js with Express, improving user experience and streamlining data management processes.
- Configure and maintain OpenShift applications, ensuring seamless deployment and efficient operation of containerized solutions in a cloud-native environment.
- Mentored junior team members through pair programming sessions and engineering learning sessions, fostering a collaborative and knowledge-sharing environment conducive to professional growth.

Full Stack Software Developer, January 2022 - April 2023 | *Dotmatics (Labarchives), San Diego CA*

- Led the migration of backend services from Ruby on Rails to Node.js and React.js, refactoring over 60% of existing code to enhance maintainability and scalability, resulting in improved developer workflow and 100% testing code coverage of the new codebase.
- Designed and implemented new REST endpoints for legacy Ruby on Rails services, ensuring seamless integration with existing systems and adherence to industry standards.
- Optimized complex MySQL and SQLite queries used for reporting systems, increasing user engagement with the system admin module by 30% through enhanced performance and responsiveness.
- Redesigned and implemented a new user reporting system using AWS ECS, Redis, and S3, resulting in an 80% improvement in the performance of distributing large reports, enhancing data accessibility and usability for end-users.
- Developed a messaging system utilizing WebSocket protocol and Elasticache to facilitate parallel user access of resources in the client, improving real-time collaboration and user experience.
- Designed and executed comprehensive unit, integration, and end-to-end testing strategies using Jest and Cypress, ensuring the acceptance and reliability of new functionality and features.

Software Engineer II, June 2021 – January 2022 | *MH Corbin, Raleigh NC (Fixed Contract)*

- Developed MERN stack solutions for the state department of transportation, providing real-time data on traffic sensor hardware and construction zone monitors, resulting in increased departmental awareness of construction zone highway activity and improved decision-making.
- Created a Storybook project featuring MaterialUI React components, streamlining the development process and ensuring consistency in UI design across the application.
- Designed and developed a Java utility application for network engineers to monitor and automate tasks on DOT networks, utilizing JSch for SSH networking and Swift for the GUI, enhancing efficiency and productivity in network management.

- Developed REST APIs using Python (Flask, Django) and Java (JDK 8) for on-field weather and highway condition sensors, enabling seamless data integration and analysis for monitoring and decision support.
- Maintained and optimized a PostgreSQL database for storing sensor data, ensuring data integrity and accessibility for analysis and reporting purposes.
- Developed event-driven solutions using the MQTT protocol to provide messaging services across field devices used on highways and interstates, enhancing communication and coordination among stakeholders.

Software Developer, December 2018 – June 2021 | *Farragut Systems, Durham NC*

- Developed technical solutions for workers' compensation insurance data collectors using ASP.NET Core, React.js, Redux, and MSSQL Server, resulting in a 60% increase in product quality and client satisfaction.
- Debugged and maintained legacy code managed in Oracle databases, ensuring the stability and reliability of existing systems while gradually modernizing the technology stack.
- Implemented unit and integration tests to maintain code quality standards and identify potential issues early in the development process, improving the robustness and stability of software products.
- Established the division's first CI/CD process using Azure Pipelines and Liquibase database deployment, reducing deployment time by over 50% and enhancing development team efficiency.
- Collaborated with clients to understand business needs and requirements, ensuring that software solutions met their expectations and deadlines.

Side Projects

Summary Bot: Discord bot application that delivers message summaries using node.js and integrating with Google Gemini

Aquinas Bot: Discord bot application themed off responses from Saint Thomas Aquinas utilizing node.js, sqlite databases with indexed copies of the works of Saint Thomas Aquinas, along with FT5 search capabilities

Open Source Contributions: Liquibase, TypeORM, node-sqlite

Key Skills

- Programming languages: JavaScript, TypeScript, Python, Rust, Go, Ruby, C#, Java
- Backend development: Node.js (Express), Flask, Django, .NET Framework, .NET Core, Ruby on Rails, GraphQL
- Frontend development: React.js, Redux, Sagas, Webpack, Babel
- AWS cloud stack: Lambda, EKS/ECS, EC2, RDS, ElastiCache, Elasticsearch, S3, IAM, CloudWatch
- SQL/NoSQL databases: MSSQL Server, MySQL, PostgreSQL, SQLite, Oracle, MongoDB, and DynamoDB
- GenAI: Experience integration with openAI, Google Gemini, and running custom LLMs with llama-cpp-python
- Caching: Redis and Memcache
- Experience with Docker and Kubernetes
- CI/CD tools: Jenkins, CircleCI, Azure DevOps
- Version control: Git, NX for monorepo management
- Data monitoring tools: Dynatrace, Datadog, Splunk

Education

Master of Art in Philosophy *Liberty University, Lynchburg VA*

Bachelor of Science in Political Science *Liberty University, Lynchburg VA*