Dakota Soares

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Software Engineer, M. Eng, SSM, CSM, AWS Certified.

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As a software engineer with a focus on back-end technologies, I bring a wide breadth of knowledge to any development team. My expertise spans optimizing code within legacy systems, developing secure, scalable applications from the ground up that utilize modern design principles, to deploying containerized applications onto cloud infrastructure. I am experienced in applying object-oriented concepts across various languages and platforms. As a certified scrum/SAFE master, I can utilize software-oriented project management paradigms such as scrum and SAFE to help drive project success. I thrive in both self-directed and collaborative environments and have a proven track record as a team-oriented player and adept troubleshooter.

PROFESSIONAL EXPERIENCE

K12 Plus, LLC, Nashville, TN, USA   **Feb 2025 – present**
Senior Software Engineer, *Full stack software development*

- Oversaw project management from requirements gathering and analysis to system design and roadblock removal.
- Assisted with the design/implementation of databases (AWS DDB) and back-end systems (via Chalice, SQS & SNS)
- Utilized advanced behaviours (i.e. GSIs, LSIs, lazy evaluations, and thread pooling) to reduce query runtimes.
- Oversaw the development and enhancement of the internal reporting system using reporting tools (Carbone).
- Worked alongside the Solutions Architect to integrate 3rd party data obtained from APIs into the ecosystem.

DKS Technical Solutions, Ilderton, ON, Canada   **June 2024 – present**
Software Engineer, *Full stack software development*

- Senior developer of the QLMS (Lab Management System) demo for use in chemical laboratory environments.
- Oversaw project management from requirements gathering and analysis to system design and roadblock removal.
- Designed and implemented databases (AWS RDS), back-end systems (Java), and front-end GUIs (React/Typescript).
- Reduced runtimes using optimizations such as hashes, streams, asynchronous programming, and lazy evaluations.
- Setup on-premises networks and local DNS configuration to interface with the corporate AWS Virtual Private Cloud.
- Utilized Jenkins and Gitlab to deploy containerized production applications at scale to cloud platforms like AWS.

Alink Computer Solutions, Inc., London, ON, Canada   **Feb 2022 – June 2024**
Software Developer, *Enterprise software development and maintenance*

- Primary backend developer for AgTrace, (a greenhouse traceability system) and SSO (single sign on) systems.
- Optimized the traceability reporting module by ~80% via implementation of more efficient design patterns in Java.
- Responsible for all new feature implementation and maintenance on the AgTrace and SSO systems after Q3 2023.
- Reviewed code, debugged errors, and utilized unit testing (Junit) to improve runtimes in CLMS, SSO, and AgTrace.
- Defined software solutions based on client's requirements being mindful of performance, re-usability, and scalability.

EDUCATION

Master of Engineering in Electrical and Computer Engineering   **2024**
University of Western Ontario, London, ON

Bachelor of Science in Computing and Information Systems   **2021**
Athabasca University, Athabasca, AB

CERTIFICATIONS

Certified Scrum Master (CSM) • Certified SAFe® 6 Master (SSM) • AWS Cloud Practitioner • UAV License (Basic Ops)

EXTRA CURRICULAR ACTIVITIES

President of the Ilderton & Area Business Association (2018 – 2022) • Ilderton 4H Poultry Association Leader (2017 - 2021 • Youth Group Leader and Guitarist (2012 – present) • FCTE Suzuki Senior Guitar Trio Member (2007 – 2017) • Vice-President, Policy Chair, past Intern President Middlesex-London EDA (2018 – present)

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