



Max Ellis

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Vancouver, WA 98664, USA

Technical Skills

Languages:	Java, Spring, SQL, Python, Javascript
Libraries:	JDBC, Snowflake SDK, AWS Java SDK, Pandas, NumPy
Tools:	Snowflake, PostgreSQL, Kubernetes, AWS services, Github, IntelliJ IDEA, Kafka, Puppet, Terraform

Work Experience

Senior Software Engineer	Act-On Software, Portland	November 2022 – Present
<ul style="list-style-type: none">Played a pivotal role in designing and implementing scalable Custom Objects feature, enabling customers to seamlessly integrate their structured data into the platform. Architected a sophisticated data pipeline leveraging Snowpipe streaming for real-time data ingestion, implemented advanced Snowflake data manipulation strategies for efficient data processing at scale, including Kafka integrations for downstream consumption. This system ensured data integrity and high performance for customer segmentation and analytics capabilities, critical high impact data throughput in the production environment.Led process improvement initiatives by enhancing data infrastructures and stabilizing the data lake management service through implementation of optimized data strategies, eliminating data errors, data duplication, and drastically reducing response times.Spearheaded the modernization of a mission-critical dataflow service by upgrading from Java 8 to Java 21 and consolidating distributed H2 databases into a centralized PostgreSQL system, significantly enhancing system reliability and visibility. Facilitated system reliability and provided improved visibility for migration from Act-On' data center to AWS cloud technologies. Established comprehensive monitoring and alerting systems to ensure continuous system health and performance in production.Engineered multiple data processing pipelines using SpringCloudDataFlow, enabling seamless integration between Snowflake, S3, and various internal services. Utilized SCDF to develop sophisticated ML-ready data preparation workflows.Achieved rapid progression from Junior to Mid-level Engineer (March 2024), and subsequently to Senior (June 2025), demonstrating exceptional proficiency in modern stack technologies (Spring Boot, Kubernetes, Snowflake, AWS services); actively mentored junior developers and collaborated across teams to resolve complex technical challenges and drive improvements.		
Research Assistant	University of Alberta, Edmonton	September 2019 – June 2022
<ul style="list-style-type: none">Spearheaded a project with an external collaborator to revitalize operation-based refactoring-aware merging, allowing it to be applied in practice with GitAnalyzed experimental data utilizing Python libraries to compare the strengths and weaknesses of two refactoring-aware merging approaches, providing insights and paths forward for each approachLeveraged sparsely documented third party libraries to programmatically detect and resolve refactoring-related merge conflicts		

Publications

Max Ellis, Sarah Nadi, and Danny Dig. "Operation-based Refactoring-aware Merging: An Empirical Evaluation". In: *IEEE Transactions on Software Engineering* (TSE 2022)
Preprint: arxiv.org/pdf/2112.10370.pdf

Education

Master of Science, Computing Science , University of Alberta, Edmonton	June 2022
<ul style="list-style-type: none">Advisor: Sarah NadiGPA Overall: 4.0 / 4.0	
Bachelor of Science, Computer Science , Washington State University, Vancouver	May 2019
<ul style="list-style-type: none">GPA Overall: 3.92 / 4.0	

References Available on Request