


Alex Beverage

Senior Software Engineer

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Profile: Experienced Senior Software Engineer with 15+ years in scalable system design, CI/CD optimization, and cloud infrastructure for global organizations. Creator of AI-powered language learning apps, including tools for skill-level-based translation and regional dialects. Proficient in Java, Python, C#, and cloud-native platforms, with a focus on user-centric, innovative solutions.

Career

Projects	Language Level/Mood/Dialect Translator	2024-	Paris
	French Language Features Trainer App	2023-	Paris
Criteo	Senior Software Engineer	2018-2021	Paris
Zalando	Senior Software Engineer	2015-2018	Berlin
Amazon	Software Development Engineer in Test II	2012-2014	Seattle
Microsoft	Software Development Engineer in Test I/II	2007-2011	Seattle / Los Angeles

Education

Bachelors of Science, Computer Science	2007	Rapid City, SD, USA
South Dakota School of Mines and Technology (SDSMT)		

Project	<p>AI Translator App that considers Speaker Level, Mood, and Dialect</p> <ul style="list-style-type: none"> - LLM-based iOS application that provides a means to communicate at your actual level, not native level assumed by most apps. - Produces text and transliterations tailored for your skill level and desired mood. - Supports regional variations and dialects. - Supported languages include Spanish, French, German, Mandarin Chinese, and Cantonese. - Built in Python with FastAPI, and React-Native for the mobile apps. (Android and iPhone) - Runs against Claude, OpenAI, Deepseek, and self-hosted LLMs
Project	<p>French Language Features Trainer App</p> <ul style="list-style-type: none"> - LLM-based Python application that produces quiz-like problems based on various French language features in ways they would be presented to newer learners of the language. - Provides translations for correctness, and feedback on errors. - Built in Python with FastAPI and PostgreSQL, hosted on AWS. - Viewable on GitHub: www.github.com/beverage/LanguageQuizService
Criteo	<ul style="list-style-type: none"> - Contributed to our build-from-source based build system to drive our CI/CD and deployment systems. - Developed systems to decouple software from hardware on our internal cloud. - Responsible for the creation of SLA/SLO monitoring for our containerization platform and beyond.
Zalando	<ul style="list-style-type: none"> - Analyzed, investigated, and saved significant revenue on 3rd-party solution costs measured in the millions of euros. - Built, upgraded, and optimized CI/CD systems as a service for many teams across all of tech, all of which were customizable for their specific needs as they liked. Results were from 5 teams to most of our tech organization within a few months. - Refactored, and repaired, and fixed compliance requirements in advance of GDPR for our internal LDAP systems.
Amazon	<ul style="list-style-type: none"> - Enlarged, and enhanced test systems from prototypes servicing limited use cases to all of the product - 10-20 internal services, several websites, customer servicing and customer facing. - Aided, developed, and upskilled the QA team for their product domains.

- Microsoft**
- Built and contributed to test systems for data warehouse products.
 - Enhanced test runs from days to under to minutes.
 - Enhanced data warehouse test provisioning from hours to minutes.
 - Built a system for rapidly provisioning OLTP clusters, reducing provisioning time from hours to minutes.

Selection of Skills

Languages	Frameworks / Platforms	Methodologies
Java	AWS	Containerization
C#	Docker	Microservices
Python	MSSQL	Mobile Development
SQL	.NET	SRE
Swift	SwiftUI	Test-driven Development

Languages

English	Native
French	B1 Overall - Breakdown: A2 / B1 / B1 / B2

Overview of Tech Stacks Used

Where / What	Years	Various Technologies Used
Personal Projects	2023-	Java / C# / Python / Swift / SwiftUI / C++ / AWS / PostgreSQL / Docker / OpenAI / FastAPI / Redis / React-Native
Criteo	2018-2021	C# / Kotlin / Python / Ruby / MSSQLServer / Marathon
Zalando	2015-2018	Java / Spring / Spring Boot / PostgreSQL / Redis / AWS / Docker / Kubernetes / Various Monitoring & Tracing Tools
Amazon	2012-2014	Java / Spring / AWS / Various Test Frameworks
Microsoft	2007-2011	C++ / C# / MSSQLServer / Hyper-V / Powershell

