

# Kyle Almas

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## Experience

Zennify (previously Terazo)  
Lead Software Architect

Jul 2017 – Present  
Jul 2020 – Present

- Led design and implementation for a major real estate technology platform, scaling it from prototype to a comprehensive suite of products serving a large user base and a full-time contact center.
- Engineered robust REST APIs and event-driven systems (Spring Boot, Kafka), supporting rapid product iteration.
- Ensured high system reliability and scalability across a large-scale microservices infrastructure using Kubernetes, Terraform, and Datadog.
- Increased customer engagement by 50% by building AI-powered personalization engine (OpenAI, Python, LangChain) to incorporate user history into outreach.
- Designed PostgreSQL data models and rigorously optimized queries, reducing response times to under 1 second for real-time analytics on millions of events.
- Mentored and led engineering teams, providing technical guidance to foster a culture of collaboration and knowledge sharing.

Senior Software Engineer

Jul 2017 – Jul 2020

- Delivered a 10x improvement in user experience speed by optimizing key system pathways and eliminating performance bottlenecks, enabling real-time customer-to-agent connections.
- Championed contract-first development using OpenAPI, Avro, and Confluent Schema Registry, enabling parallel development and data stream reuse. Facilitated rapid product delivery during significant team expansion.
- Promoted Test-Driven Development using JUnit and Pytest, and enforced 80%+ code coverage with SonarQube, resulting in a robust automated test suite and enabling teams to average of 5 CI/CD deployments per day.

ForRent.com

Feb 2012 – Jul 2017

### Software Engineer

- Replaced legacy search engine with Elasticsearch, reducing query response times and introducing new query options to produce more accurate results.
- Developed and deployed major features for a high-traffic website. Utilized Java, Node.js, and PHP to build new features and improve user experience.
- Designed schemas and integrated applications with diverse databases (Elasticsearch, SQL Server, MongoDB, Redis), enhancing data accessibility and performance.
- Collaborated with teams throughout the company on migration to a stream based architecture using Kafka. Replaced legacy batch ETL processes with reactive streaming pipelines.

Dominion Enterprises

May 2009 – Feb 2012

### Developer I

- Designed and developed a knowledge-sharing website with Drupal CMS, enabling simple content administration and custom features to empower collaboration across organization.
- Maintained and enhanced internal systems, including Human Resources self-service portal used by a large employee base, ensuring system stability and efficient employee access.
- Implemented OpenID and LDAP authentication for Single Sign-On (SSO) access, streamlining user authentication and increasing security across internal applications.

## Education

Bachelor of Science, Information Systems  
Old Dominion University

May 2010  
Norfolk, VA

## Honors

Finalist: Innovation in AI & Machine Learning  
Outstanding Information Technology Student

rvatech/Gala Awards  
Old Dominion University

Sep 2024  
May 2010

## Skills

**Programming Languages:** Java, Python, JavaScript, SQL, PHP, TypeScript  
**Frameworks:** Spring Boot, Flask, Express, React, Kafka Streams, Apache Avro, Liquibase, Angular, Symfony  
**AI Tools:** OpenAI, LangChain, AWS Bedrock, DSPy, Continue, GitHub Copilot, Anthropic  
**Databases:** PostgreSQL, SQL Server, Apache Kafka, Elasticsearch, MongoDB, Redis, Athena, DynamoDB  
**Cloud and DevOps:** AWS, Docker, Kubernetes, Twilio, OpenAPI, Jenkins, Logstash, Kibana, Datadog, SonarQube  
**Patterns and Practices:** REST, Event-Driven Design, Contract First Development, Test Driven Development, CI/CD