AKSEL ALLOUCH
SOFTWARE ENGINEER

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PROFESSIONAL EXPERIENCE

AKSELSOFT, Boston, MA   08/2023 –
Software Engineering Advisor

- Advised a broad variety of startup founders, entrepreneurs, and business owners met at various in-person consultations, online networking platforms, and startup accelerator events.
- Built and delivered full roadmaps based on early-stage ideations, including guidelines for system design, implementation, testing, deployment, release, support and monitoring.
- As the lead architect and consultant on a high-profile dating app development project in Asian territory, had the privilege of steering the technical direction, ensuring scalability, security, and a seamless user experience.
  - Languages: Java, .NET, React Native, SQL, NoSQL, GraphQL
  - Frameworks: React, Next, Node.js, Spring, Amazon Lex, OpenAI API, Docker, Kubernetes, Jira

AMAZON, Remote   09/2021 – 08/2023
Software Development Engineering Lead

- Designed and developed the new GraphQL-based metadata aggregator FireFly, with 1 major integration for catalog and playlist albums for release and deployment in all regions for 1P and 3P customers.
- Developed ECS Fargate serverless microservice to execute a cross-border-price implementation strategy involving multiple source and target marketplace combinations using business-driven cap metrics.
- Developed cloud-scale load test stages using Artillery to validate API latency expectations.
- Drove project technical and architecture requirements, with assessed pros/cons of alternate solutions taking into account Performance (TPS), latency, UX, and technology selection.
  - Languages: Java, Kotlin, Typescript, AWK, SQL
  - Frameworks: GraphQL, NodeJS, AWS (S3, DynamoDB, Lambda, ECS, IAM, CloudFront, CloudFormation/CDK, SNS, SQS, Route53, APIGateway), JUnit, Mockito/Powermock, TestNG, Artillery, Gitlab

HITACHI VANTARA, Waltham, MA   04/2015 – 10/2019
Specialist Software Engineer

- Actively maintaining the Hitachi Content Platform codebase (enhancements and bug fixes).
- Led the security harness release by implementing major OWASP principles.
- Implemented Authentication plugin to manage data access against the Amazon STS.
- Designed and implemented features for a log triage tool to parse through various log types and detect known issue signatures for fast log analysis.

- Consistently interacted with developers, QA, and product owners in Agile/Scrum framework.
- Co-invented data replication technology mechanism under USPTO patent #10664190.
    - Languages: Java, JSP, Python, Bash, SQL, AWK, Javascript
    - Frameworks: Struts, JQuery, Solr, AngularJS, Kafka, JUnit, Git, Jenkins

EZE SOFTWARE GROUP, Boston, MA   10/2009 – 04/2015
Lead Software Developer
- Led initial product release of the Pricing system (Realtime and Reference data).
- Developed numerous 3rd data interfaces feeding the OMS: Bloomberg OptionChain requests, Sungard, FactSet,
- Addressed performance, memory, and threading issues by investigating Windows memory dumps, interacting with the market data vendors, and simulating extreme conditions.
- Led the architecture of the SecurityMaster service to support fully bi-temporal data used by the investment book of records for securities, security templates, asset classes & types, strategies, portfolios, and counterparties.
    - Languages: Java, JSP, Python, Bash, SQL, AWK, Javascript
    - Frameworks: Struts, JQuery, Solr, AngularJS, Kafka, JUnit, Git, Jenkins

VISTAPRINT, Lexington, MA   08/2008 – 01/2009
Software Engineer
- Developed an async front-end ASP.NET tool for a live view of tasks assigned to developers.
- Developed encryption and compression schemes for secure transactional data transmission.
- Built numerous automated partner reporting jobs for booking and statistical data.
- Improved European marketing revenue performance by 20% via campaign messaging optimization.
    - Languages: C#/.NET, ASP.NET, Visual Basic, T-SQL
    - Frameworks: SVN, TFS

HIGHBRIDGE CAPITAL MANAGEMENT, New York   06/2007 – 08/2007
NY IT Intern
- Set Fast Connection Failover on RAC instances using configured OracleDataSource objects.
- Developed a web-driven Portlet type Web Application for statistical summary report display.
- Implemented an offline Database Handler for logging all user-defined schema errors.
    - Languages: Java/JSP, PL/SQL
    - Frameworks: TFS, Oracle

UNIVERSITY OF PENNSYLVANIA, Philadelphia, PA   11/2006 – 12/2007
Web Developer
- Coded Coldfusion/XML and PL/SQL scripts to drive an async query model with the back-end.
- Built interactive front-end tools to improve university students and staff User experience.

- Implemented a login infrastructure supporting encryption and password reminder.
  Languages: Coldfusion, XML, PL/SQL
  Frameworks: DreamWeaver, Oracle

EDUCATION

University of Pennsylvania, Philadelphia, PA   2006 - 2007
Masters of Science - Telecommunications

Stony Brook University, Stony Brook, NY   2003 - 2005
Bachelor of Science - Computer Science

Saint Louis University, Madrid, Spain   2001 - 2003
Bachelor Program - Computer Science

PROFESSIONAL SKILLS

Languages: Java, C#, Javascript, TypeScript, Python, Kotlin
Frameworks: .NET Core, J2EE, ServiceStack, Spring, Boot, Node.js, Django, Nest.js, Next.js, JQuery, FastAPI, Fastify
Cloud Platform: All the AWS product suite (Serverless Lambda & ECS Fargate, Cognito, DynamoDB, CloudFormation, SQS, SNS, EventBridge, Redshift, Sagemaker, Lex, etc)
Storage: PostgreSQL, MySQL, MS-SQL, T-SQL, MongoDB, SQLite, Redis, Neo4j, SQLite, Redis
UI: React, Angular, Vue.js, WPF, JSP, ASP.NET Core, Winforms, Blazer
Containerization: Docker, Kubernetes
Observability: Datadog, Sumologic, Splunk, Grafana, Elasticsearch
CI/CD: Git, GitHub, GitLab, Azure, Jira, Agile/Scrum
Other Engineering: Full-stack Development, Front-end Development. Back-end Development, Enterprise Architecture, Security, Web Development, Product Development, GPT, Microservices, Open AI, Clarifai