

# Curriculum Vitae

## Personal information

First name / Surname	<b>Selçuk Cihan</b>
E-mail	selcukcihan@gmail.com
Nationality	Turkish
Online profiles	<a href="https://www.linkedin.com/in/selcukcihan">linkedin.com/in/selcukcihan</a> , <a href="https://github.com/selcukcihan">github.com/selcukcihan</a> , <a href="https://selcukcihan.com">selcukcihan.com</a> , <a href="https://stackoverflow.com">stackoverflow</a>

## Education

Qualification	BS. in Computer Engineering @ <a href="https://www.boğaziçi.edu.tr">Boğaziçi University</a>   2003 - 2008 (3.57 / 4)
Research interests	Wireless networks and computer vision
Qualification	MS. in Computer Engineering @ <a href="https://www.boğaziçi.edu.tr">Boğaziçi University</a>   2008 - 2010 (3.80 / 4)
Title of thesis	Parallel maximum flow solver for multi-core machines

## Occupational field **Software Development Engineer**

### Work experience

Role	Senior Software Engineer @ <a href="https://www.scriber.com">Scriber</a> (2021 - 2022)
Responsibilities	Backend for a serverless platform, including payment systems using Stripe Connect.
Role	Senior Software Engineer @ <a href="https://www.tellimer.com">Tellimer</a> (2019 - 2021)
Responsibilities	Serverless & machine learning applications, including site reliability & observability.
Role	Freelancing Software Development Engineer @ <a href="https://www.toptal.com">Toptal</a> (2018 - 2019)
Responsibilities	Web development on AWS with serverless framework.
Role	Software Development Engineer @ <a href="https://www.amazon.com">Amazon</a> UK (2017 - 2018)
Responsibilities	Selection Contribution Platform - Amazon's worldwide catalog, a massively large scale system.
Role	Senior Software Engineer @Intertech., <a href="https://www.intertech.com.tr">intertech.com.tr</a> (2013 - 2017)
Responsibilities	Business process management suite, a web app on which 500K processes are served daily.
Role	Senior Software Engineer @Ziraat Teknoloji, <a href="https://www.ziraatteknoji.com">ziraatteknoji.com</a> (2011 - 2013)
Responsibilities	Developing and supporting workflow engine and document management system of <a href="https://www.ziraatbank.com.tr">Ziraat Bank</a> .
Role	Embedded Software Engineer @AirTies Wireless Networks, <a href="https://www.airties.com">airties.com</a> (2009 - 2010)
Responsibilities	IPTV development in C, focusing on teletext, closed captioning, subtitles and transport protocols.
Role	Software Engineer @CC Yazılım Ltd., <a href="https://www.ccyazilim.com">www.ccyazilim.com</a> (2009)
Responsibilities	Online backup solution development - flagship product of the startup.

## Skills and competences

Programming languages	TypeScript, JavaScript, Python, Perl, Java
Miscellaneous	Serverless, AWS, Domain Driven Design, Distributed Systems, DataDog, Stripe, Hubspot

## Selected work

Scriber	<ul style="list-style-type: none"><li>- Created the serverless GraphQL backend for <a href="https://scriber.to">scriber.to</a>, which is a platform for financial writers.</li><li>- Implemented payments with Stripe Connect.</li><li>- Built analytics application to provide the financial writers with KPIs.</li></ul>
Tellimer	<ul style="list-style-type: none"><li>- Created the API and step functions orchestrator that forms the machine learning pipeline for <a href="https://parsel.ai">parsel.ai</a>, a machine learning SAAS offering.</li><li>- Implemented serverless workflows for ingesting 3rd party financial articles for <a href="https://tellimer.com">tellimer.com</a>.</li><li>- Architected an article recommender and an article summarizer for <a href="https://tellimer.com">tellimer.com</a>.</li><li>- Built a serverless app that periodically maintains the sitemap for various web apps.</li><li>- Created GraphQL APIs with AppSync, connecting various data sources like DynamoDB &amp; RDS.</li><li>- Integrated with Hubspot to track SAAS deals.</li></ul>
Catalog orchestration platform (Amazon - London)	<ul style="list-style-type: none"><li>- Developed and maintained the orchestration platform processing <b>Amazon's catalog updates</b></li><li>- Handles <b>tens of thousands of TPS</b>, enabling the finest and largest catalog on earth</li><li>- Uses Kinesis as the back-bone and routes updates to the catalog to downstream services</li></ul>
Relational to NoSQL migration (Amazon - London)	<ul style="list-style-type: none"><li>- Rearchitected an RDS backed service onto <b>DynamoDB</b></li><li>- Migration was carried out <b>without downtime</b> moving around 600 GB of data in the process</li></ul>
Workflow engine (Ziraat Teknoloji)	<ul style="list-style-type: none"><li>- Designed / developed (C#) a workflow engine, workflow designer (WPF) and administration tools</li><li>- <b>100K instances flow daily</b> through the engine, a .Net application backed by Oracle 10G</li></ul>
Workforce Management System (Intertech)	<ul style="list-style-type: none"><li>- Designed and developed workforce management system for <a href="https://denizbank.com.tr">DenizBank</a> operation center</li><li>- The project received an <a href="#">award for innovation</a></li></ul>
Public facing web application (Toptal)	<ul style="list-style-type: none"><li>- Serves a total of <b>100K users</b></li><li>- Fully <b>serverless</b> architecture on AWS, built using the serverless framework</li><li>- User authentication and authorization are managed with AWS Cognito</li><li>- Implemented business workflows using AWS Step Functions</li></ul>

## Certifications

<a href="#">AWS Certified Solutions Architect - Professional</a>	Valid until June 2025
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## References

Name / Email	Erdem Kurul - <a href="mailto:erdemkurul@gmail.com">erdemkurul@gmail.com</a>
About	Former Microsoft employee, UCSD alum. <a href="https://www.linkedin.com/in/erdemk">linkedin.com/in/erdemk</a>
Relation	Software Development Manager, direct report at Intertech & Ziraat Teknoloji.