

# Curriculum Vitae

## Personal information

First name / Surname

**Selçuk Cihan**

E-mail

selcukcihan@gmail.com

Nationality

Turkish

Online profiles

[linkedin.com/in/selcukcihan](https://www.linkedin.com/in/selcukcihan), [github.com/selcukcihan](https://github.com/selcukcihan), [selcukcihan.com](https://selcukcihan.com), [stackoverflow](https://stackoverflow.com), [playstore](https://playstore.com)

## Education

Qualification

BS. in Computer Engineering @[Boğaziçi University](https://www.boğaziçi.edu.tr)

Dates / GPA

2003 - 2008 (3.57 / 4)

Research interests

Wireless networks and computer vision

Qualification

MS. in Computer Engineering @[Boğaziçi University](https://www.boğaziçi.edu.tr)

Dates / GPA

2008 - 2010 (3.80 / 4)

Title of thesis

Parallel maximum flow solver for multi-core machines

## Occupational field

**Software development engineer**

### Work experience

Role

Freelancing Software Development Engineer @[Toptal](https://www.toptal.com)

Main activities and responsibilities

Web development using AWS with serverless framework.

Dates

08/2018 –

Role

Software Development Engineer @[Amazon](https://www.amazon.com) UK

Main activities and responsibilities

Selection Contribution Platform - Amazon's worldwide catalog, a massively large scale system.

Dates

05/2017 – 08/2018

Role

Senior Software Engineer @Intertech., [intertech.com.tr](https://www.intertech.com.tr)

Main activities and responsibilities

Business process management suite, a web app on which 500K processes are served daily.

Dates

10/2013 – 05/2017

Role

Senior Software Engineer @Ziraat Teknoloji, [ziraatteknoloji.com](https://www.ziraatteknoloji.com)

Main activities and responsibilities

Developing and supporting workflow engine and document management system of [Ziraat Bank](https://www.ziraatbank.com.tr).

Dates

06/2011 – 10/2013

Role

Embedded Software Engineer @AirTies Wireless Networks, [airties.com](https://www.airties.com)

Main activities and responsibilities

IPTV development in C, focusing on teletext, closed captioning, subtitles and transport protocols.

Dates

09/2009 – 12/2010

Role	Software Engineer @CC Yazılım Ltd., <a href="http://www.ccyazilim.com">www.ccyazilim.com</a>
Main activities and responsibilities	Online backup solution development - flagship product of the startup.
Dates	01/2009 – 09/2009

## Skills and competences

Programming languages	Java, Python, Javascript, C#, Perl
Miscellaneous	Node, Django, Serverless, AWS, ElasticSearch, React, Angular, agile, devops, unix, bash

## Selected work

Catalog orchestration platform	<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	<ul style="list-style-type: none"> <li>- Rearchitected a relational database 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	<ul style="list-style-type: none"> <li>- Designed and 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	<ul style="list-style-type: none"> <li>- Designed and developed workforce management system for <a href="#">DenizBank</a> operation center</li> <li>- The project received an <a href="#">award for innovation</a></li> </ul>
Public facing web application	<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 - Associate</a>	Valid until September 2022
<a href="#">AWS Certified Developer - Associate</a>	Valid until September 2022
<a href="#">AWS Certified Cloud Practitioner</a>	Valid until September 2022

## 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 manager at Intertech & Ziraat Teknoloji.