# Curriculum Vitae

## Personal information

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| First name / Surname | **Selçuk Cihan** |
| E-mail | selcukcihan@gmail.com |
| Nationality | Turkish |
| Online profiles | linkedin.com/in/selcukcihan, github.com/selcukcihan, selcukcihan.com, stackoverflow |

## Education

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| Qualification | BS. in Computer Engineering @Boğaziçi University | 2003 - 2008 (3.57 / 4) |
| Research interests | Wireless networks and computer vision |
| Qualification | MS. in Computer Engineering @Boğaziçi University | 2008 - 2010 (3.80 / 4) |
| Title of thesis | Parallel maximum flow solver for multi-core machines |

## Occupational field

**Software Development Engineer**

## Work experience

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

## Skills and competences

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

## Selected work

**Scriber**
- Created the serverless GraphQL backend for scriber.to, which is a platform for financial writers.
- Implemented payments with Stripe Connect.
- Built analytics application to provide the financial writers with KPIs.

**Tellimer**
- Created the API and step functions orchestrator that forms the machine learning pipeline for parsel.ai, a machine learning SAAS offering.
- Implemented serverless workflows for ingesting 3rd party financial articles for tellimer.com.
- Architected an article recommender and an article summarizer for tellimer.com.
- Built a serverless app that periodically maintains the sitemap for various web apps.
- Created GraphQL APIs with AppSync, connecting various data sources like DynamoDB & RDS.
- Integrated with Hubspot to track SAAS deals.

**Catalog orchestration platform (Amazon - London)**
- Developed and maintained the orchestration platform processing **Amazon's catalog updates**
- Handles **tens of thousands of TPS**, enabling the finest and largest catalog on earth
- Uses Kinesis as the back-bone and routes updates to the catalog to downstream services

**Relational to NoSQL migration (Amazon - London)**
- Rearchitected an RDS backed service onto **DynamoDB**
- Migration was carried out **without downtime** moving around 600 GB of data in the process

**Workflow engine (Ziraat Teknoloji)**
- Designed / developed (C#) a workflow engine, workflow designer (WPF) and administration tools
- **100K instances flow daily** through the engine, a .Net application backed by Oracle 10G

**Workforce Management System (Intertech)**
- Designed and developed workforce management system for DenizBank operation center
- The project received an award for innovation

**Public facing web application (Toptal)**
- Serves a total of **100K users**
- Fully **serverless** architecture on AWS, built using the serverless framework
- User authentication and authorization are managed with AWS Cognito
- Implemented business workflows using AWS Step Functions

## Certifications

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| AWS Certified Solutions Architect - Professional | Valid until June 2025 |

Selçuk Cihan

## References

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| Name / Email | Daniel Vliegenthart |
| About | Tech Lead at Parsel.ai |
| Relation | Details are in the recommendation letter. |

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| Name / Email | Decebal Dobrica |
| About | Software Architect at Tellimer |
| Relation | Details are in the recommendation letter. |

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| Name / Email | Ian Watt |
| About | Co-founder, Tellimer |
| Relation | Details are in the recommendation letter. |

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| Name / Email | Erdem Kurul - erdemkurul@gmail.com |
| About | Former Microsoft employee, UCSD alum. linkedin.com/in/erdemk |
| Relation | Software Development Manager, direct report at Intertech & Ziraat Teknoloji. |