| **Curriculum Vitae** |  | |
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| **Personal information** |  | |
| First name / Surname | **Selçuk Cihan** | |
| E-mail | selcukcihan@gmail.com |  |
| Nationality | Turkish | |
| Online profiles | [linkedin.com/in/selcukcihan](http://linkedin.com/in/selcukcihan), [github.com/selcukcihan](http://github.com/selcukcihan), [selcukcihan.com](http://selcukcihan.com), [stackoverflow](http://stackoverflow.com/cv/selcukcihan) | |
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| **Education** |  | |
| Qualification | BS. in Computer Engineering @[Boğaziçi University](https://www.cmpe.boun.edu.tr/) | 2003 - 2008 (3.57 / 4) | |
| Research interests | Wireless networks and computer vision | |
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| Qualification | MS. in Computer Engineering @[Boğaziçi University](https://www.cmpe.boun.edu.tr/) | 2008 - 2010 (3.80 / 4) | |
| Title of thesis | Parallel maximum flow solver for multi-core machines | |
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| **Occupational field** | **Software Development Engineer** | |
| **Work experience** |  | |
| Role | Senior Software Engineer @[Scriber](https://scriber.to) (2021 - 2022) | |
| Responsibilities | Backend for a serverless platform, including payment systems using Stripe Connect. | |
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| Role | Senior Software Engineer @[Tellimer](https://tellimer.com) (2019 - 2021) | |
| Responsibilities | Serverless & machine learning applications, including site reliability & observability. | |
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| Role | Freelancing Software Development Engineer @[Toptal](http://www.toptal.com) (2018 - 2019) | |
| Responsibilities | Web development on AWS with serverless framework. | |
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| Role | Software Development Engineer @[Amazon](http://www.amazon.com) UK (2017 – 2018) | |
| Responsibilities | Selection Contribution Platform - Amazon’s worldwide catalog, a massively large scale system. | |
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| Role | Senior Software Engineer @Intertech., [intertech.com.tr](http://intertech.com.tr/) (2013 - 2017) | |
| Responsibilities | Business process management suite, a web app on which 500K processes are served daily. | |
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| Role | Senior Software Engineer @Ziraat Teknoloji, [ziraatteknoloji.com](http://www.ziraatteknoloji.com/) (2011 - 2013) | |
| Responsibilities | Developing and supporting workflow engine and document management system of [Ziraat Bank](http://www.ziraat.com.tr/). | |
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| Role | Embedded Software Engineer @AirTies Wireless Networks, [airties.com](http://www.airties.com/) (2009 - 2010) | |
| Responsibilities | IPTV development in C, focusing on teletext, closed captioning, subtitles and transport protocols. | |
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| Role | Software Engineer @CC Yazılım Ltd., [www.ccyazilim.com](http://www.ccyazilim.com) (2009) | |
| Responsibilities | Online backup solution development - flagship product of the startup. | |
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| **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 |
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| **Selected work** |  |
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| Scriber | - Created the serverless GraphQL backend for [scriber.to](https://scriber.to), which is a platform for financial writers.  - Implemented payments with Stripe Connect.  - Built analytics application to provide the financial writers with KPIs. |
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| Tellimer | - Created the API and step functions orchestrator that forms the machine learning pipeline for [parsel.ai](https://parsel.ai), a machine learning SAAS offering.  - Implemented serverless workflows for ingesting 3rd party financial articles for [tellimer.com](https://tellimer.com).  - Architected an article recommender and an article summarizer for [tellimer.com](https://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. |
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| 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 |
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| 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 |
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| 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 |
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| Workforce Management System (Intertech) | - Designed and developed workforce management system for [DenizBank](https://www.denizbank.com/en/) operation center  - The project received an [award for innovation](https://www.bai.org/globalinnovations/awards/2017-winners/2017-internal-process-innovation-award) |
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| 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 |
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| **Certifications** |  |
| [AWS Certified Solutions Architect - Professional](https://www.credly.com/badges/f2b93002-0754-4e37-8d31-031d2d520ee3) | Valid until June 2025 |
| **References** |  |
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| Name / Email | Erdem Kurul - [erdemkurul@gmail.com](mailto:erdemkurul@gmail.com) |
| About | Former Microsoft employee, UCSD alum. [linkedin.com/in/erdemk](http://www.linkedin.com/in/erdemk) |
| Relation | Software Development Manager, direct report at Intertech & Ziraat Teknoloji. |