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| 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), [playstore](http://play.google.com/store/apps/developer?id=Sel%2525C3%2525A7uk+Cihan) | |
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| Education |  | |
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| Qualification | BS. in Computer Engineering @[Boğaziçi University](https://www.cmpe.boun.edu.tr/) | |
| Dates / GPA | 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/) | |
| Dates / GPA | 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 | |
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| Work experience |  | |
| Role | Freelancing Software Development Engineer @[Toptal](http://www.toptal.com) | |
| Main activities and responsibilities | Web development using AWS with serverless framework. | |
| Dates | 08/2018 – | |
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| Role | Software Development Engineer @[Amazon](http://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 | |
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| Role | Senior Software Engineer @Intertech., [intertech.com.tr](http://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 | |
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| Role | Senior Software Engineer @Ziraat Teknoloji, [ziraatteknoloji.com](http://www.ziraatteknoloji.com/) | |
| Main activities and responsibilities | Developing and supporting workflow engine and document management system of [Ziraat Bank](http://www.ziraat.com.tr/). | |
| Dates | 06/2011 – 10/2013 | |
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| Role | Embedded Software Engineer @AirTies Wireless Networks, [airties.com](http://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., www.ccyazilim.com | |
| Main activities and responsibilities | Online backup solution development - flagship product of the startup. | |
| Dates | 01/2009 – 09/2009 | |

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| Skills and competences |  |
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| Programming languages | Java, Python, Javascript, C, C++, C#, Perl |
| Miscellaneous | Serverless, Kinesis, DynamoDB, EC2, ElasticSearch, Angular, unix, bash |
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| Selected work |  |
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| Catalog orchestration platform | Developed and maintained the orchestration platform that processes Amazon’s catalog updates. The platform is able to handle 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 relevant downstream services. |
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| Relational to NoSQL migration | Modelled a relational database backed service onto a NoSQL store. The service had two implementations for historical reasons and the task included shimming one implementation to the other, mapping from a relational model to a document based model. The migration was carried on without downtime and around 600 GB of data at rest was migrated offline. |
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| Workflow engine | Designed and developed (C#) a workflow engine, workflow designer (WPF) and administration tools. 100K instances flow daily through the engine which is a .Net application with Oracle 10G used for persistence services. |
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| Workforce Management System | Designed and developed workforce management system for [DenizBank](https://www.denizbank.com/en/) operation center, receiving an [award for innovation](https://www.bai.org/globalinnovations/awards/2017-winners/2017-internal-process-innovation-award). The tech stack uses Microsoft’s Solver Foundation. |
| Serverless web portal | * Serves a total of 100K users * Fully serverless architecture on AWS * Uses Lambda, API Gateway, CloudFront, S3, DynamoDB and SNS * Built using the serverless framework |
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| **Certifications** |  |
| [AWS Certified Solutions Architect - Associate](https://www.certmetrics.com/amazon/public/badge.aspx?i=1&t=c&d=2019-09-05&ci=AWS00772446) | Valid until September 2022 |
| [AWS Certified Developer - Associate](https://www.certmetrics.com/amazon/public/badge.aspx?i=2&t=c&d=2019-09-17&ci=AWS00772446) | Valid until September 2022 |
| [AWS Certified Cloud Practitioner](https://www.certmetrics.com/amazon/public/badge.aspx?i=9&t=c&d=2019-06-24&ci=AWS00772446) | Valid until September 2022 |
| **References** |  |
|  |  |
| 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 manager at Intertech & Ziraat Teknoloji. |