

# Curriculum Vitae

## Personal information

First name / Surname **Selçuk Cihan**  
E-mail [selcukcihan@gmail.com](mailto:selcukcihan@gmail.com)  
Nationality Turkish

Online profiles [linkedin.com/in/selcukcihan](https://www.linkedin.com/in/selcukcihan), [github.com/selcukcihan](https://github.com/selcukcihan), [www.selcukcihan.com](http://www.selcukcihan.com), [stackoverflow](https://stackoverflow.com), [android](https://play.google.com/store/apps/details?id=com.selcukcihan.android)

## Education

Dates / GPA 01/09/2003 - 01/07/2008 (3.57 / 4)  
Title of qualification BS. in Computer Engineering  
Research interests Wireless networks and computer vision  
Organisation [Boğaziçi University](https://www.boğaziçi.edu.tr)  
  
Dates / GPA 01/09/2008 - 01/10/2010 (3.80 / 4)  
Title of qualification MS. in Computer Engineering  
Title of thesis Parallel maximum flow solver for multi-core machines  
Organisation [Boğaziçi University](https://www.boğaziçi.edu.tr)

## Desired employment / Occupational field

### Software engineer

## Work experience

Employer INTERTECH A.Ş., [intertech.com.tr](http://intertech.com.tr)  
Occupation or position held Senior Software Engineer  
Main activities and responsibilities Developing and supporting business process management suite, a web application on which 500K processes are served daily.  
  
Dates 10/2013 --  
  
Employer FİNTEK A.Ş., [fintek.com.tr](http://fintek.com.tr)  
Occupation or position held Senior Software Engineer  
Main activities and responsibilities Developing and supporting workflow engine and document management system of [Ziraat Bank](https://www.ziraatbank.com.tr). The application serves 50K users.  
  
Dates 06/2011 – 10/2013  
  
Employer AirTies Wireless Networks, [airties.com](http://airties.com)  
Occupation or position held Embedded software engineer  
Main activities and responsibilities IPTV development in C, with a focus on teletext, closed captioning, subtitles, rtsp, pvr and transport stream parser.  
  
Dates 09/2009 - 12/2010  
  
Employer CC Yazılım Ltd., [www.ccyazilim.com](http://www.ccyazilim.com)  
Occupation or position held Software engineer  
Main activities and responsibilities Cross-platform desktop application development in C++ (wxWidgets, SQLite).  
Web application development (apache + mysql + django).  
  
Dates 01/2009 - 09/2009

## Personal skills and competences

Programming languages C, C++, C#, Java, Perl, Python, Javascript

Databases MySQL, SQLite, MS SQL, Oracle

Other stuff Elastic search, wxPython, Scrum

## Selected work

Workflow engine Designed and developed (C#) a workflow engine, workflow designer and administration tools. 100K instances flow daily through the engine which is a .Net application with Oracle 10G used for persistence services. Workflow engine is designed to have constructor injection (dependency injection pattern) using Unity.

Ziraat Bank Operation Center Developed (C#) Operation Center application of Ziraat Bank, which is a windows forms app.

Online backup Designed and implemented a cross-platform desktop client and corresponding server. Client is implemented in C++ utilizing wxWidgets GUI toolkit. Client database is SQLite. Server is implemented in Java (J2SE). An application level protocol is implemented for client-server communication, secured via SSL (openssl). Stored files are encrypted (AES).

Online backup web portal Designed (visual design excluded) and implemented a web portal for serving online backup users. Users can download / browse backed up files through the portal. MySQL, apache web server and django framework are utilized.

Business Process Management Suite Developed and maintained (C#, MSSQL) a workflow engine, workflow designer and administration tools. The engine is hosted on IIS 7, with MSSQL as the database. Serves 500K instances per day.

DenizBank Workforce Management System Designed and developed workforce management system for DenizBank operation center, using Microsoft's Solver Foundation.

IPTV

- Teletext (level 1, 1.5, 2.5, 3.5) implementation
- Subtitles (DVB, MicroDVD, SRT, SAMI) implementation
- Personal Video Recorder implementation
- Transport Stream parser implementation

Mobile 3D talking head Ported Xface talking head library to mobile platform (J2ME). Uses OpenGL ES and can render a face composed of 2K polygons with a frame rate of 25 FPS.

Instant messaging system Designed and implemented an application layer protocol together with the instant messaging application. Implemented in c++. Uses wxWidgets and Berkeley sockets.

## References

First name / Surname Erdem Kurul

About Former Microsoft employee, UCSD alum. [linkedin.com/in/erdemk](https://www.linkedin.com/in/erdemk)

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Relation Current manager