

Ferhat Elmas

Passionate Developer

Chemin des Emetaux 7, 1131 Tolochenaz Morges, Switzerland (+41) 78 926 9917
ferhat.elmas@epfl.ch ferhatelmas.com github.com/ferhatelmas

EDUCATION

Master of Science, Computer Science, [Internet Computing](#)
School of Computer and Communication Sciences
Swiss Federal Institute of Technology in Lausanne(EPFL), Switzerland
Expected graduation: 04/2014, currently 5.06/6.00 GPA
Thesis: "[New Storage System for Indico, Event Management at CERN](#)"
Semester Project: "[Nokia Mobile Data Challenge - Demographic Attributes](#)"
Extra Project: "[Squall, Online Query Processing Engine on top of Twitter Storm](#)"

Bachelor of Engineering, [Computer Engineering](#)
Faculty of Engineering
[Bogazici University](#), Istanbul, Turkey
Graduation grade: 3.61/4.00 GPA (4/72)
Thesis: "[Social Analysis on DeviantART](#)"

EXPERIENCE

Software Developer, Open Source

[Indico Software @ CERN Geneva, CH](#)

Mar 13 - Present

- Design and implementation of highly scalable and extensible polyglot storage system
- Modularization of code base by utilizing of required changes due to total replacement of storage system architecture
OODBMS(ZODB) → **RDBMS**(PostgreSQL) + **NoSQL**(Redis+MongoDB)

Software Developer, Open Source

[Zurmo Open Source Chicago, USA](#)

May 13 - Present

- Performant data layer implementation for exciting features of mobile, gamified and social CRM

Committer, Open Source

[Community Software Lab Massachusetts, USA](#)

Jun 11 - Feb 12

- Transition of social service search engines [mvhub.com](#) and [northshorereport.org](#) to MVC pattern for easier development and maintenance
- Backend agnostic storage system which enables plug and play between different DBMSs
- Restructure of schema for better performance and easier development

Software Developer Part time

[Bogazici University Civil Engineering Department Istanbul, TR](#)

Mar 11 - Jun 11

- *Traffic Simulator* to test the performance of the congestion/incident detection algorithms, devised by Civil Engineering department
- Customizable incident detection and load generation plugins for Paramics, full featured simulation tool used by the department

Teaching Assistant

[Bogazici University Computer Engineering Istanbul, TR](#)

Feb 11 - Jun 11

- [CMPE 230 - System Programming](#)
- Helped students to prepare 3 projects and graded them, a minimal log parser for *Apache Web Server*, command line wrapper for *AWS* and graphical user interface for *wget*

Software Developer Part time

Pozitron Mobile Istanbul, TR

Aug 10 - Jun 11

- *SessionSwitch Service*, a monitoring tool that keeps track of what developers do on their machines
- *kapalidevre.com digital signage system* that enable customers to prepare custom playlists and to play them on multiple machines at the same time indefinitely. It is also extensible with news, weather forecasts, radio, etc.

Software Developer Intern

Nortel Netas Networks Istanbul, TR

Jun 10 - Jul 10

- Market analysis for a mobile SIP client (Palm, BlackBerry, Windows Phone, iOS and Android) and implementation of a very simple prototype in Android

Software Developer Intern

Pozitron Mobile Istanbul, TR

Jan 10 - Feb 10

- *Download Manager*, a web application to serve versions of mobile applications at pre-smart-phone era according to phone specification
- *Server health watcher aka Big Brother*, analytics and emergency recovery tool

Software Developer Intern

Pozitron Mobile Istanbul, TR

Jun 09 - Oct 09

- Implementation of a manager for logs and notifications for mobile banking at [Turkish IsBank](#)
- Domain specific editor for a custom XML-based language, that is used to define the hierarchy of the code written by the company

COMPUTER SKILLS

- Solid background on **data structures** and **algorithms**
- **Proficient in Java** and experienced in **Scala**
- Mostly drives **Python/Ruby/Perl** but also agnostic about **C/C++/Go** and indispensable **Javascript**
- Experienced developer on **Linux** and **Git**