

Rodion Efremov

Résumé

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Education

2008–2014 **Bachelor of Science, Computer Science, University of Helsinki**, Helsinki, *grade point average 3.6/5.0.*

2004–2008 **High School, Anjalankoski High School**, Kouvola.

Bachelor thesis

Title *Polunhakualgoritmit ja -järjestelmät* (engl. Shortest path algorithms and systems)

Description I studied and compared several shortest path algorithms, ways to speed up the search such as using bidirectional search, concurrency, heuristic search, graph preprocessing and confining to special graph types. Score: 4/5.

Download URL <https://github.com/coderodde/bsc-thesis/blob/master/tutkielma.pdf?raw=true>

Work experience

9.2009– **Personal assistant**, *City of Vantaa, Health and Social services*, Vantaa.

4.2010 Going to the grocery store, cleaning and making food for my customer with moving disabilities.

5.2009– **Process operator**, *Oy VR-Rata Ab, Rail-welding unit*, Kouvola.

9.2009 Marking the rails and operating the rail saw.

6.2008– **Process operator**, *Oy VR-Rata Ab, Rail-welding unit*, Kouvola.

9.2008 Marking the rails and operating the rail saw.

4.2007– **Janitor**, *Nuorten Kuntoutus Nurku Oy*, Kotka.

6.2007 Keeping a house and its surroundings in order. Gardening and woodwork.

Languages

English **fluent**

Finnish **fluent**

Russian **native language**

Technic skills

Proficient Java, C

Good Javascript, HTML5, CSS

Intermediate SQL

Basic C++

Technical interest

Unit and integration testing
back-end development
graph algorithms
optimisation algorithms
data structures
machine learning
analytics

Publications

Computing debt cuts leading to global zero-equity

A method for computing such debt cuts in a loan network, that the entire loan network develops into a state, where each and every node has zero equity (the loans may be just “forgot”). I have produced an [implementation](#) for the method.

Portfolio

- [Parallel radix sort](#) Very efficient, parallel integer sort algorithm for parallel arrays.
- [ACM DL Crawler](#) A parallel crawler loading information from ACM web site in order to reconstruct the collaboration graph.
- [Javascript PacMan](#) A Javascript replica of the famous PacMan game.
- [Java Battleships](#) A nifty Battleships game clone developed in Java on behalf of a school project. Stores the game state for the user to be able to continue his/her game at the next run of the game.
- [biblex](#) A stand alone, graphical Java program for managing BibTeX-references persisting information into a SQLite database.
- [multilog](#) A web forum developed on behalf of a web programming course. Stores all the data into a PostgreSQL-database. Supports a user hierarchy of three levels: user, moderator, admin. The entire forum is organized into topics, each containing threads, each containing actual posts. Shows a registered user list of threads containing updates. Allows simple text search. Supportst a simple marking language (italics, bold, monospaced font), and can fix the invalid marking.
- [rateapp](#) A simple web application allowing a user rate movies and receive recommendations based on the user’s ratings. Made on behalf of a school project course.

Suosittelijat

Ante Mulari Puh. 0505710781, email: ante.mulari@gmail.com, Vala Group Oy, Software development and testing.