Bernard Kolobara | CV

Education

University of Zagreb

Faculty of Electrical Engineering and Computing

2012–2016

Master of Computer Science
University of Zagreb

Faculty of Electrical Engineering and Computing

Bachelor of Computer Science

2007-2012

Masters Thesis

Title: Finding similar email conversations using locality sensitive hashing

Supervisor: Prof. Dr. Sc. Siniša Srbljić

Description: This thesis explored the idea of finding similar emails in a large collection by applying fingerprinting methods based on locality sensitive hashing algorithms.

Experience

Bernard Kolobara Software

Munich

Owner Mar. 2017 – Present

• Web development consultancy that helps customers ship amazing digital products.

• Specialized in complex frontend application designs (REACT.JS, REDUX, IMMUTABLE.JS, ...).

CERN Geneva

VIA

Feb. 2015 - Feb. 2017

Worked with the data acquisition team of the ATLAS experiment to create new web applications and improve the user experience of existing ones.

- Designed and developed the Shifter Assistant Web Interface: A single-page application that is responsive, works on all screen sizes and includes advanced features like streaming updates and desktop/push notifications based on HTML5 service workers. It is used daily by shifters and experts as a critical application to monitor the status of the ATLAS data acquisition.
 - (Python [FLASK, SQLALCHEMY], Javascript [REACT.JS, IMMUTABLE.JS, FLUX], Oracle SQL)
- Redesigned and implemented the frontend of the Shifter Assistant Replay application, allowing a faster non-repetitive work-flow. Simplified code complexity of the backend that resulted in a removal of over 1 thousand LOC. Implemented a custom Django log-in module based on SSO and LDAP.
 (Python [DJANGO], Javascript [REACT.JS, REDUX])
- Tutored and implemented a simple DAQ control system for teaching purposes at the International School of Trigger & Data Acquisition 2016. (Python)

Cliqz Munich

Software Engineer

Mar. 2014 - Jan. 2015

- Developed the Cliqz Firefox extension[1]: An extension that provides search results directly in the url bar, with a custom presentation depending on result content.
 (Javascript, HTML and CSS)
- Designed and developed a version management and update system for Firefox extensions distributed outside of Mozilla, based on Git tags and Amazon S3. This allowed us to push new versions multiple times a day to millions of users and separate testing and production channels.
 - (Python, Git, Amazon Web Services)
- Worked with the data science team on analyzing terabytes of user behavior data, extracting meaningful information out of it and recognizing patterns. (Hadoop, map-reduce)
- [1] https://addons.mozilla.org/en-US/firefox/addon/cliqz/

CERN Geneva

Openlab Summer Student

Jul. 2013 - Sep. 2013

Worked on the Indico project (http://indico-software.org) developing e-ticket and check-in functionalities for the system.

- Extended Indico to generate e-tickets with QR codes. (Python)
- Built a cross-platform mobile application[1] for scanning and processing generated tickets using web technologies on PhoneGap. (HTML, CSS, Javascript [AngularJS])
- The application was put in production and is now a part of Indico. It is available from the two major smart-phone application stores and has received very positive feedback from conference organizers.

[1] https://github.com/indico/indico-checkin

Partner bank Zagreb

Software engineer intern

Jul. 2012 - Dec. 2012

- Developed rich/interactive web applications to simplify work-flow and collaboration between different teams. (Python [FLASK], Javascript [BACKBONE.JS])
- Used test-driven development to assure code correctness in a fast-moving environment.

MF creative studio Zagreb

Software engineer intern

Oct. 2011 - Dec. 2011

- Developed web applications for conference organizers. (PHP, MySQL, Javascript, HTML)
- Worked on a small team and learned to "wear many hats" when necessary.

Skills

Programming languages:

ADVANCED: Python, Javascript INTERMEDIATE: Java, Lua BASIC: C/C++, Clojure[Script]

Miscellaneous:

ADVANCED: HTML, CSS

INTERMEDIATE: SQL, Git/SVN, Docker, Test-driven development

BASIC: Kubernetes, Photoshop

Languages

Croatian: Mother tongue

English: Professional working proficiencyCEFR level: C1German: Professional working proficiencyCEFR level: C1

Interests

Outside of work I like to spend my time running, painting and designing video games.