

Bernard Kolobara | CV

Raucheneggerstr. 8 – 81245 Munich, Germany

✉ me@kolobara.com • 🌐 kolobara.com

Education

University of Zagreb

Master of Computer Science

Faculty of Electrical Engineering and Computing

2012–2016

University of Zagreb

Bachelor of Computer Science

Faculty of Electrical Engineering and Computing

2007–2012

Masters Thesis

Title: Finding similar email conversations using locality sensitive hashing

Supervisor: Prof. Dr. Sc. Siniša Sribljčić

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

Owner

Munich

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

VIA

Geneva

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

Software Engineer

Munich

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

Openlab Summer Student

Geneva

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

Software engineer intern

Zagreb

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

Software engineer intern

Zagreb

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 proficiency

CEFR level: C1

German: Professional working proficiency

CEFR level: C1

Interests

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