

Ivan Babic

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Current Address:

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Permanent Address:

Zagreb, Croatia

Education: Earlham College, Richmond, IN, Bachelor of Arts, May 2013

Major: Computer Science; **Minor:** Politics; **GPA:** 3.62/4

Iceland Abroad Program, Pellissippi State College, Summer 2013

England Semester Abroad Program, London Imperial College, January 2011

United World College in Mostar, Bosnia and Herzegovina, 2007-2009

Relevant Experience:

USA, UK, India, Iceland, Nicaragua, Germany, Bosnia and Herzegovina

Technical Manager DevOps, Target Corporation - India - FT position **Jan 2016 to Dec 2016**

- Coordinated agile team between San Francisco bay area, Minneapolis and Bangalore
- Started DevOps infrastructure team in India from scratch - Hired, trained and managed
- Partnered with cross functional teams to execute short and long term product delivery strategy
- Managed and improved infrastructure design, tools development, release process, uptime

Senior DevOps Engineer, Target Corporation – USA - FT position **April 2015 to Jan 2016**

- Designed and implemented solutions which improved continuous deployment & integration
- Created and improved system and application monitoring, logging & real time alerting
- Built automated system that ensured constant system availability and zero downtime of our APIs
- As an senior engineer at Target I have ben exposed to projects that were dependent on: Spark, Cassandra, Scala, Chef, OpenStack, Jenkins, Docker, Splunk, Spring Boot, Spock, Graphite, Graphana, Sensu, Uchiwa, Flapjack, Unix Shell Scripting
- Oversaw 1000+ nodes in OpenStack and Amazon Web Services & improved monitoring of same

Post-Baccalaureate CS Faculty - USA & Iceland - FT position **May 2013 to April 2015**

- Lectured Computer Science classes and was responsible for Labs
- Designed economical, open, hardware designs and software for sampling geocoded water, soil, gas and ambiance values and visualizing the resulting data sets
- Contributed to the research of Comparative Genomics of the Harpy Eagle and other Raptors
- Administrated CS/Math/Physics UNIX computing facilities including servers, clusters, labs
- Leadership of the System and Network Administrators Applied CS groups

LittleFe Senior Project Manager, USA (<http://littlefe.net>) **From 2009 to 2015**

- Designed a complete 6 node Beowulf style portable computational cluster
- Built modules for educators that helped integrate parallelism into their classrooms
- Managed buildout workshops sponsored by Intel, National Computational Science Foundations
- Served on the grant selection committee, resulting in 100 clusters given to universities and colleges across the United States and world. Awarded grants totaling \$350,000

Bootable Cluster CD Senior Developer, USA (<http://bccd.net>) **From 2009 to 2015**

- Engineered software for the BCCD, a custom built operating system automatically managing a cluster environment for scientific computing and high performance computing education
- Integrated software with capabilities of shared memory, distributed memory, GPGPU parallelism and ability to teach key concepts such as speedup, efficiency and load balancing
- Taught educators how to teach HPC material, enhancing the future of Computer Science

Hardware Interface Project Group Leader, USA **From 2009 to 2015**

- Constructed helpful hardware solutions for Earlham College and the Richmond community

- Assistant Instructor at the National Computational Science Institute** **From 2010 to 2015**
- Provided educators at all levels with ideas and resources related to computational science
 - Coordinated and worked with many field experts
 - Lectured at University of Washington, Louisiana State University, Oklahoma University
- Green Science Group Leader, USA** **From 2009 to 2015**
- Established the power consumption monitoring system on Earlham's campus
 - Built hardware, software and generated visualization for campus electricity consumption
 - Worked on integration and installation of green energy sources in to the campus energy network system such as solar arrays and wind turbine
 - Lowered the energy consumption and increased college wide energy awareness
 - Trained local community members to use college equipment and instruments with the outcome of making their homes more environmentally friendly and less energy consuming places
- Cluster Computing Group** **From 2009 to 2015**
- Created curriculum modules for teaching computational science to grad and undergrad students and faculty, closely collaborating with NCSI, Shodor Foundation, TeraGrid/XSEDE and SC Conf.
- Teaching Assistant – Earlham College** **August 2009 to May 2013**
- Assisted Computer Science/Physics/Politics professors with student homework, exam preparation
 - Conducted assignments and exams grading. Instructed students during special sessions. Lectured.
- Ministry of Foreign Affairs of BiH – Embassy in London, England** **Spring 2011**
- Acquired diplomatic experience in addition to maintaining the embassies technology and data

Other Experience:

- Oxford International Encyclopedia of Peace** **From 2013 to 2014**
- Came up with goals for a review consultation on the coverage of sustainability issues
 - Pioneered concept of Museopedia of Peace – interactive digital archive of peace pictures
- Teacher – Earlham College, Richmond Indiana** **Spring 2011**
- Taught and designed a college level course, *The Past, Present and the Future of The United Nations*
 - Closely Evaluated international issues and functions of the United Nations through history
- Model United Nations (MUN) Secretary-General** – (<http://ecmun.com>) **April 2011 – April 2012**
- Organized a two-day on campus MUN conference for 300 students from four US states
 - Coordinated and assigned responsibilities for 30 highly motivated Earlham MUN staff members
 - Led and organized trips to other MUN conferences; club received more than 10 notable prizes
- London Refugee Voice – England** **Spring 2011**
- Volunteered for refugee community organizations, focused on African immigrants
 - Advocated and lobbied on refugee issues in order to enhance their capacity
- Sida and Youth Organization – Bosnia and Herzegovina** **January 2000 to Present**
- Engaged as volunteer on uniting three nations, Bosnians, Croats and Serbs

Awards, Recognitions and Activities

- College Honors** – Awarded to seniors with cumulative grade point averages of 3.4 or higher
- Award for Best Grad/PhD Poster** – IEEE Cluster 2013 (September 2013)
- Award for volunteer work** - Swedish International Development Cooperation Agency
- Award for contribution in development of Turbe** – Youth Center Turbe, Bosnia and Herzegovina
- Award for contribution to education of Roma people** – Roma organization, Zuralipe Vitez
- Peace Project Award** - \$10,000 for self-designed project related to improving Roma's education in BiH
- Davis College Scholarship** – four years of undergraduate education and HS United World College
- William C. Dennis Scholarship** – For pursuing International Affairs & contribution to Legal Studies
- Student Programming Contest** – First place award at the International Conference for High Performance Computing, Networking, Storage and Analysis in New Orleans.
- Internship** - Blue Waters Undergraduate Patascale Education Program (Louisiana State University)
- Internship in marketing field**- Worked with marketing experts in leading BiH Business Center