Ivan Babic

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Current Address:
Germany, Jena
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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

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.