Jeremiah M. Via

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Objective

As a dedicated, motivated and business-minded computer scientist, I enjoy tackling problems of all sizes. My positive attitude and focused mindset allow me to combine logic and creativity to find the best solutions. Technology excites me because it is fast-moving and dynamic. I believe that learning quickly and keeping an open mind is the only way to stay ahead and fulfill my aim of making information available to everybody.

Education

2012–2014 **MSc in Computer Science & Cognitive Science** (expected)
Tufts University, USA

2009–2012 **BSc in Artificial Intelligence & Computer Science**, First Class Honours
University of Birmingham, United Kingdom

2007–2009 **AS in Computer Programming** (3.83 GPA)
Grossmont College, USA

Work Experience

2012–2013 **Research Assistant**, *Human Robot Interaction Lab, Tufts University*

- Developed code in Clojure to automatically generated software components to allow bidirectional communication between the ROS and ADE middlewares
- Improved low-level feature extractor by enabling introspection on its current context
- Developing architecture wide fault-tolerant mechanisms
- Lead developer on the Willow Garage PR2 and the VGo telepresence robots
- Part of a team to develop learning by demonstration on a robot

2012 **Teaching Assistant**, *Robot Programming, University of Birmingham*

- Explained concepts to help students develop localization and navigation algorithms
- Showed students how to debug remote and low-level hardware

2011 **Research Assistant**, *Research Institute for Cognition and Robotics, Universität Bielefeld*

- Extended a data-driven fault detection system to work on the CAST robotics middleware
- Modified learned model and algorithm to become more space and time efficient without loss in fault detection power

Technical Skills

I have a good understanding of the theory behind data structures, algorithms and architecture, as well as OOP principles. I proved this at Bloomberg when architecting a large-scale distributed system from scratch. I am most proficient in Java, although I use a variety of languages and often switch to the language most appropriate for the task, learning a new one if necessary. I have done this when developing stand-alone, server and web applications at university, in my own projects and while working at Bloomberg and IBM.

Experienced	Familiar	Tools	Platforms
Java	Python	Emacs	Linux/Unix
C	SQL	Git	Mac OS X
Clojure	Matlab	Subversion	ROS
Prolog	Common Lisp	LaTeX	ADE
Bash			

Awards

2012 Provost Fellowship, Tufts University
Best Final Year Computer Science Student
Best Research Dissertation
Computer Science Prize
2011 Ede & Ravenscroft Travel Bursary
Student Development Scholarship
Nuffield Foundation Science Bursary
School of Computer Science Excellency Scholarship
2010 British Computing Society Tammal Hussein Memorial Prize
School of Computer Science Excellency Scholarship
2009 Best First Year Computer Science Student
School of Computer Science Excellency Scholarship

Languages

English (native speaker)
Spanish (conversational fluency)

Interests

Powerlifting.