

Leonardo Franchi

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Education

Tufts University, Medford, MA
B.A. in Computer Science and Philosophy. Expected May 2010
Major GPA: 3.8

High School Diploma, Palo Alto High School, CA, 2006

Work Experience

Mitsubishi Electric Research Laboratories

Intern, Speech Group

- Developed Java and C applications for the Android platform.

Cambridge, MA
June 2009—Present

Amarok

Software Developer

- Developer of leading open-source audio player Amarok for the GNU/Linux and Mac OS X operating systems.
- Developed dynamic graphical user interfaces, scripting interfaces, web service integration, and other features and bugfixes.

Medford, MA
June 2005—Present

Mitsubishi Electric Research Laboratories

Intern, Speech Group

- Ported existing Windows-specific code to Linux and ARM/Embedded systems.
- Investigated information retrieval systems and their applications to broad cross-domain speech recognition.
- Generated comparisons of speech recognition backends over word- and particle-based speech synthesis.

Cambridge, MA
May 2008—August 2008

Emergent Energy Group Inc.

Programmer

- Created and maintained Ruby and C++ systems for automated data gathering over the web.

Medford, MA
March 2007—August 2008

Google Inc.

Mentor, Google Summer of Code 2008

- Managed and tracked progress of student in the GSoC program. Assisted and guided student's development.

Medford, MA
May 2008—August 2008

Information Technology, Tufts University

Student RCC

- Dealt with user support as well as troubleshooting, repairing, and restoring of users' systems as a member of the front-line support staff for Tufts University Information Technology.

Medford, MA
August 2007—Present

Google Inc.

Developer, Google Summer of Code 2007

- Designed innovative ways of using SVG-themed applets to visually represent data.
- Extended and adapted a flexible client/server model in order to provide a reliable and reusable system for managing visually appealing applets.

Sardinia, Italy
May—August 2007

Zeronines Technology, Inc.

Software Development Intern

- Developed client-side application in Java and C++ facilitating data backup and management, including data transmission over the internet and synchronization with a central server.

Menlo Park, CA
2004—2005

Talks

Camp KDE 2009

Integrating libplasma in Desktop Applications

- An account of my experience integrating libplasma in the Amarok media player.
- Pitfalls of using the plasma framework for displaying dynamic content in your standalone application.

Negril, Jamaica
January, 2009

Research Experience

Botball Robotics Team

Founder and Team Captain

Palo Alto, CA

August 2005–June 2006

- Led and managed a group of 6 focused individuals in creating completely autonomous and LEGO-built robots.
- Created visual recognition systems, designed and built LEGO robots with the capability to find, capture, and deliver items to specific locations.

FIRST Robotics Team

Lead Programmer

Palo Alto, CA

September 2003–June 2006

- Developed autonomous code dealing with many sensory inputs, including visual tracking, IR detection, and PID feedback loops.
- Researched sensory controls for use with joysticks, including input mixing and PID velocity and direction control.

Honors and Awards

FIRST 2006 Las Vegas Regional Champion, FIRST Robotics Competition

Computer Skills

Proficiency in software development in C++, C, Java, Ruby, Python

Familiarity with Qt, Regular Expressions, Threads, Sockets, SQL, L^AT_EX

Expert user and administrator of GNU/Linux and Mac OS X