

## Leonardo Franchi

---

113 Prospect St, Apt 1  
Somerville, MA 02143

(512) 775 5637  
<https://github.com/lfranchi>

[lfranchi@kde.org](mailto:lfranchi@kde.org)

### Education

Tufts University, Medford, MA.  
B.A. in Computer Science and Philosophy, cum laude. 2010

### Work Experience

#### **Humbug, Inc**

Software Engineer

Cambridge, MA  
Jan 2013–Present

- Engineer at early-stage startup, involved in all aspects of development.
- Developed, designed and architected backend Python services and frontend Javascript.

#### **Hacker School**

Hacker

Brooklyn, NY  
Oct 2012–Dec 2012

- Built a networked daemon in Clojure that replicates a SQL database amongst peers.
- Implemented a Software Transactional Memory system in Python for Clojure-Py.
- Contributed to a distributed fault-tolerant Go project for running arbitrary services in a reliable manner.
- Contributed to Droplet, a Clojure DSL implementing the Bloom<sup>L</sup> language.
- Developed commutative replicated data types (CRDTs) as well as examples for the droplet project.

#### **Tomahawk Player**

Software Developer

Cambridge, MA  
June 2010–Present

- Developer of cross-platform open-source social media player Tomahawk.
- Wrote C++, Objective-C, Javascript to provide a seamless music experience that encompasses the web.

#### **KDAB (USA) LLC.**

Software Engineer

Cambridge, MA  
Sept 2009–December 2012

- Cross-platform C++ development with the Qt framework.
- Developed touch-screen and low-resolution UIs for touch screen and embedded devices.
- Bugfixing and feature development for large and small Windows, OS X, and Linux applications.

#### **Mitsubishi Electric Research Laboratories**

Intern, Speech Group

Cambridge, MA  
May-August, 2008 & 2009

- Developed Java and C applications for the Android platform.
- Ported speech recognition engine in C to Android with JNI.
- 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.

#### **Amarok**

Software Developer

Medford, MA  
June 2005–July 2010

- 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.

#### **Google Summer of Code**

Student, Mentor, Administrator

Medford, MA  
May 2007–August 2009

- Managed and organized KDE Project's 50 GSoC students and mentors.
- Managed and tracked progress of mentee in the GSoC program. Assisted and guided student's development.
- 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.

**Information Technology, Tufts University**

Medford, MA

Student RCC

August 2007–May 2008

- 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.

## Talks

### **Akademy 2010**

Tampere, Finland

Blurring the Boundaries of Music

July, 2010

- Announcing Tomahawk, a media player designed for our social music day and age.

### **Camp KDE 2010**

San Diego, California

Making Your Media Player Intelligent

January, 2010

- Media players have failed to evolve and keep up with new innovation in the music sphere.

### **Camp KDE 2009**

Negril, Jamaica

Integrating libplasma in Desktop Applications

January, 2009

- 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.

## Computer Skills

Proficiency in software development in C++, Python, Clojure, Javascript, Go, Java

Familiarity with Qt, Concurrency, Regular Expressions, Threads, Sockets, SQL, L<sup>A</sup>T<sub>E</sub>X

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