

PHILIPP BLUME

☎ 510.499.6466 ✉ pgbluster@gmail.com in [linkedin.com/in/pgblu](https://www.linkedin.com/in/pgblu) 📄 github.com/pgblu 🌐 www.pgblu.com

SUMMARY

A former Professor of Music, I became a Developer because I recognize that coding, like music, is a powerful way to communicate with people when language alone is inadequate.

Currently, I'm most interested in getting a language-agnostic understanding of web frameworks and HTTP, as well as integration testing of web services. I also harbor a passion for data visualization, database schema design, and algorithm optimization. My long-term interests lie in the ways that music is delivered over the web.

SKILLS

Software & Web Development	LANGUAGES: Ruby, SQL, Javascript(incl. jQuery/ AJAX), bash scripting, Java, C++ FRAMEWORKS: Rails 4, Sinatra TECHNIQUES AND TOOLS: Test-Driven Development, Git, Agile, Continuous Integration
Languages	native speaker of German, native speaker of American English, rudimentary Russian
Outreach & Event Organizing	conference hosting, public speaking, music production, artistic direction, grant writing
Communication	German-English translation, English-German translation writing, editing, proofreading
Music	composition, contemporary music, music theory pedagogy, harmony & voice leading, counterpoint, orchestration, music analysis, 20 th -century music history, intonation theory, electronic music, ensemble conducting, choir directing

WORK EXPERIENCE

2013–present	GERMAN-ENGLISH TRANSLATOR Wolfram Research, Champaign, IL
2012–present	FOUNDER AND ARTISTIC DIRECTOR SUONO MOBILE USA
2005–2013	VISITING ASST. PROFESSOR OF COMPOSITION & THEORY University of Illinois, Urbana-Champaign
2001–2005	GRADUATE STUDENT INSTRUCTOR University of California, Berkeley
2000–present	FREELANCE TRANSLATOR the International Music Institute Darmstadt and the Ernst von Siemens Music Foundation

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EDUCATION

- 2015 DEV BOOTCAMP**
(Cohort: Bison 2014)
- 2006 PH.D., WITH DISTINCTION, IN MUSIC**
University of California, Berkeley
- 1999 ARTIST DIPLOMA IN MUSIC COMPOSITION**
Staatl. Hochschule für Musik Freiburg, Germany
- 1995 BA, MUSIC WITH HONORS**
University of California, Berkeley

SOFTWARE PROJECTS

- Patroll** **URL:** <https://github.com/pgblu/to-catch-a-troll>
8-day group final project at Dev Bootcamp **DESCRIPTION:** Online harassment, especially the public display of users' private information—known as *doxing*—is a growing problem on the 21st-century internet. Patroll is a small but effective step toward counteracting this menace. The app, which is built in Rails, enables users to activate web scrapers, tailored to specific sites, then receive alerts via email and reports in their browsers whenever and wherever their personal data appears.
RESPONSIBILITIES: initial setup of the app, integration & deployment, setup of background jobs, building a custom web scraper (built on the Cobweb gem) for the different target websites and exposing the results to our search engine (built on the Sunspot gem / Apache Solr).
- Dryphtwords** **URL:** https://github.com/pgblu/dryphtwords_public
solo work-in-progress **DESCRIPTION:** Dryphtwords is a word game of my own invention, and this website, built in Sinatra, serves puzzles to the user, validates their answers, and keeps track of their score. Also, the site provides hints [not yet implemented], and even helps players identify and create new puzzles through a WordExplorer model.
- Bison Overflow** **URL:** <https://github.com/pgblu/bison-overflow>
3-day group project at Dev Bootcamp **DESCRIPTION:** A clone of *stackoverflow.com*, built in Rails.

COMPOSITION

- Composition Work** Please visit www.pgblu.com/compositions.html for a complete worklist.
- Teaching** Please visit www.pgblu.com/teaching.html for a list of university-level courses taught.
- Honors & Awards** Please visit www.pgblu.com/awards.html for a list of music-related honors and awards.
- Writings & Lectures** Please visit www.pgblu.com/research.html for a list of music-related publications and lecture appearances.