

agathebattestini

senior software engineer

contact

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 linkedin

portfolio

projects
app store: [kemtro](#)

programming

♥ iOS, python
javascript
css & html
 @agathe

interests

mobile
fast prototyping
developer evangelism
growth hacking

experience

Sept 2012–Nov 2013

Morse Project

San Francisco, CA

Tech Lead iOS

iOS tech lead of a team of four engineers in a stealth consumer electronics startup. Architected and developed the core framework of the application to address its key challenges: providing high connectivity to remote peer devices, backend and streaming services while ensuring the fast loading and display of text and media content. Collaborated with the design team to develop various custom UI components as well as tools to enable designers to make dynamic changes in the UI. Planned and coordinated the iOS project development with agile methods.

Apr–May 2012

Morse Project

San Francisco, CA

iOS Engineer - Contractor

Collaborated with interaction and visual designers to prototype an iOS application. Prototyped the application using design mockups and images and gradually implemented the core features and the interaction. The functioning prototype included REST API clients to access media information, as well as a media player, custom UI and gestures and peer to peer bluetooth communication.

2011–Present

ATApps Software

San Francisco, CA

Co-Founder, Tech Lead

Three persons software development company creating mobile applications. Sole developer for an iPhone app called [Kemtro](#) - a metro route finding application for Paris and London. Created a suite of tools to scrape data, create and edit map data and map tiles using Open Street Map and Mapnik.

<https://itunes.apple.com/us/app/kemtro/id504689469>

Sept 2007–Oct 2011

Nokia Research Center

Palo Alto, CA

Senior Research Engineer

Developed multiple proofs of concept and trial-ready prototypes of apps and services for user research studies. Developed full-stack solutions of mobile apps, web front end and backend services. Developed scripts to scrape and collect, analyze and post-process data. Participated in running trials and user testing. Co-authored multiple publications and patents [1]. Examples of projects:

- *60K text messages dataset analysis*: wrote Python scripts to explore the dataset and find new insights [2]
- *Sensor Comix*: developed the PyQt mobile app and backend server, developed the algorithms to recognize gestures from sensor data [3]
- *Nokia Mashups*: developed mobile app and backend servers in Python to perform text analysis of text messages and retrieval of relevant Flickr background and topical images [5]
- *Tourist Map*: developed scripts to retrieve and cluster large collections of Flickr images to identify automatically a city's top landmarks [4].

June 2004–Oct 2007	Nokia Research Center <i>Research Engineer</i> Collaborated on a large scale European research project MobiLife [8] to architect and prototype context-aware and intelligent applications and services [6]. Prototyped and analyzed new lightweight methods to cluster sensor data on mobile devices to support context-awareness [7]. Prototyped a front and backend solution in Ruby on Rails to categorize automatically consumer reports received from Nokia technical support groups in order to identify emerging issues. Co-authored multiple publications.	Helsinki, Finland
Sept 2003–May 2004	Kinoa <i>Software Programmer</i> Developed Java web apps.	Paris, France
Aug 2001–May 2003	The Aware Home Lab, Georgia Tech <i>Graduate Research Assistant</i> Developed an indoor location tracking software in Java for the context-aware house lab.	Atlanta, GA
May 2002–Aug 2002	Nokia Research Center <i>Research Intern</i>	Boston, MA

education

2001–2003	Masters of Science in Computer Science Software engineering, mobile and ubiquitous computing, object-oriented programming, distributed systems	Georgia Tech, Atlanta, GA
1998–2001	Masters of Science / Diplôme d'ingénieur in Computer Science Software engineering, computer architectures	UTC, France
1996–1998	Technical Degree / DUT in Telecommunication Systems Telecommunication systems, networks, electronics, programming	IUT of Blois, France

technical skills

programming objective-c (3+ years), python (10+ years), ruby, java

ios uikit, table views/collections, autolayout, core data, afnetworking, cocoapods, testflight, crashlytics

web programming javascript, node, jquery, html, css, python web frameworks (turbogears, django, mapfish), mashup programming (APIs such as google maps, twitter, facebook, etc)

operating systems linux, debian, mac

others git, jira, bamboo, design patterns, continuous integration, databases (mysql, mongodb, postgres), geo tools (openstreetmap, mapnik, cascadenik, route-me)

interests

languages: french (native), english (fluent), german (intermediate), spanish (beginner)

hobbies: cooking, traveling

sports: road & mountain biking, snowboarding, weightlifting, tennis, swimming

selected publications

See [list of all publications](#).

peer-reviewed conferences & workshops

- [1] Myngle: unifying and filtering web content for unplanned access between multiple personal devices. [↗](#)
Timothy Sohn, Frank Chun Yat Li, Agathe Battestini, Vidya Setlur, Koichi Mori, Hiroshi Horii
Ubicomp, 2011, Beijing, China
- [2] A large scale study of text-messaging use. [↗](#)
Agathe Battestini, Vidya Setlur, Timothy Sohn
Mobile HCI, 2010, Lisbon, Portugal
- [3] Using gestures on mobile phones to create SMS comics. [↗](#)
Vidya Setlur, Agathe Battestini, Timothy Sohn, Hiroshi Horii
Tangible and Embedded Interaction, 2010, Cambridge, MA
- [4] Visual summaries of popular landmarks from community photo collections. [↗](#)
Wei-Chao Chen, Agathe Battestini, Natasha Gelfand, Vidya Setlur
ACM Multimedia, 2009, Beijing, China
- [5] Using Comics as a Visual Metaphor for Enriching SMS Messages with Contextual and Social Media. [↗](#)
Vidya Setlur, Agathe Battestini, Timothy Sohn, Hiroshi Horii
MobileHCI, Workshop on Sharing Experiences with Social Mobile Media, 2009, Bonn, Germany
- [6] ContextWatcher - Sharing context information in everyday life [↗](#)
Johan Koolwaaij, Anthony Tarlano, Marko Luther, Petteri Nurmi, Bernd Mrohs, Agathe, Battestini, Raju Vaidya
IASTED International Conference on Web Technologies, Applications, and Services (WTAS2006), 2006
- [7] Analysis and Cluster Based Modelling and Recognition of Context in a Mobile Environment [↗](#)
Agathe Battestini, Adrian J. Flanagan
Second International Workshop on Modeling and Retrieval of Context (MRC' 05), 2005, Edinburgh, Scotland

book chapters

- [8] Enabling Technologies for Mobile Services: The MobiLife Book [↗](#)
Chap. 4. Context Awareness and Management
Chap. 8. Trials and Evaluation for Acceptance
Agathe Battestini, Adrian Flanagan, Patrik Floréen, Stefan Gessler, Johan Koolwaaij, Emil Lagerspetz, Sian Lun Lau, Marko Luther, Miquel Martin, Jean Millerat, Bernd Mrohs, Petteri Nurmi, Massimo Paolucci, Julien Robinson, Jukka Suomela, Matthias Wagner
John Wiley & Sons, 2007

patents pending

- [9] Method and apparatus for providing an ordering metric for a multi-dimensional contextual query [↗](#)
V. Setlur, A. Battestini
WO Patent App. PCT/FI2012/050,468, 2013
- [10] Method and apparatus for generating information related to a significant location [↗](#)
A. Battestini, H. Horii, T. Sohn
WO Patent App. PCT/IB2011/054,605, 2012
- [11] Method and apparatus for illustrative representation of a text communication [↗](#)
T. Sohn, V. Setler, A. Battestini
WO Patent App. PCT/IB2010/000,446, 2010

presentations

- [12] Tutorial 3: Fast Prototyping for Mobile Phones with Python S60 [↗](#)
Battestini Agathe
Middleware Conference, 2008, Leuven, Belgium