

Laura Barreto

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SUMMARY

Musician turned Computer Scientist interested in Software Engineering and Mobile Development opportunities

WEBSITE

lauradanielabarreto.com

EDUCATION

VASSAR COLLEGE, NY

BA IN COMPUTER SCIENCE

Expected May 2017

Minor in Music Theory

Cum. GPA: 3.75 / 4.0

RELATED COURSEWORK

Data Structures and Algorithms

Software Design and Implementation

Modeling, Simulation, and Analysis

Algorithms, Fall 2015

Networks, Fall 2015

SKILLS

PROGRAMMING

Proficient In

Java • XML • Scheme

Knowledge Of

Android • Shell • \LaTeX

Learning

HTML/CSS • Python • Swift

LEADERSHIP

CS MAJOR'S COMMITTEE

Co-Chair

Planned events for CS majors (ie. hackathons, info panels).

SHE++

College Ambassador

Collaborated with She++ and the Vassar CS Dept to encourage diversity within CS.

VASSAR DEVILS A CAPPELLA

Webmaster & Historian

Utilized HTML, CSS, SquareSpace to create their website: vassardevils.com

LATINAS IN COMPUTING

Community Manager

Developed a more public presence for LIC through the use of social media

HOUSE TEAM

House Fellow Intern, Secretary

Worked with faculty as a trained residential student leader to provide academic dorm programming in support of an intellectual and cultural residential life.

EXPERIENCE

JOHNSON & JOHNSON | SOFTWARE ENGINEERING INTERN

Jun 2015 – Aug 2015 | Raritan, NJ

- Collaborated with a team to create a native Android application using Java and XML catered towards J&J IT employees with the aid of tools such as Git, Stash, Jira, SourceTree, Genymotion
- Developed user friendly and aesthetically pleasing application views conforming with the Google Design Guidelines
- Implemented Google Analytics into the application in order to ease the ability to track user-usage

VASSAR CS DEPT | TEACHING ASSISTANT

Jan 2014 - Present | Poughkeepsie, NY

- Coached and mentored 35 students per semester during labs and outside of class in Data Structures and Algorithms

VASSAR CS DEPT | RESEARCH ASSISTANT FOR PROF. BARRY JONES

Jan 2015 - May 2015 | Poughkeepsie, NY

- Used Schillinger's music theory methods to make an application that recognizes harmonic structures of a composition such as rhythm, melody, harmony to create a smart composing tool

DREU AT TEXAS A & M | UNDERGRADUATE RESEARCHER

June 2014 – Aug 2014 | students.cse.tamu.edu/barreto | College Station, TX

- Created Maestoso, a music education application that uses sketch-recognition in a pedagogical manner. The application facilitates on-the-go music education
- Worked primarily in Java to create the interface and feedback engine that recognizes user strokes and provides an assessment of a user's answer

PUBLICATIONS

- Published: "Maestoso: An Intelligent Educational Sketching Tool for Learning Music Theory" - Paul Taele, Laura Barreto, Tracy Hammond. *Innovative Applications of Artificial Intelligence (IAAI @ AAAI)*.
- Presented: "Maestoso: Triumphant and Heroic Sketch Recognition for Music Education" - Laura Barreto, Paul Taele, Stephanie Valentine, Tracy Hammond. *ACM Richard Tapia Celebration of Diversity in Computing (TAPIA)*.
- Presented: "Maestoso: An Intelligent Educational Sketching Tool for Learning Music Theory" - Paul Taele, Laura Barreto, Tracy Hammond. *Workshop on the Impact of Pen and Touch Technology in Education*.

AWARDS

2015	Thompson-Bartlett Fellowship	Fellow
2015	Asprey CCAS Student Research Enhancement Award	Recipient
2014	Academic Enrichment Fund	Recipient

CONFERENCE PARTICIPATION

Mar 2015	Attendee	GHC/1
Dec 2014	Organizer	CommunityHack at Vassar College
Oct 2014	Attendee	Grace Hopper Celebration for Women in Computing

HOBBIES

iOS Game Development • VC++ Student Developers Club • Local Hackathon Planner • Maestoso Research continuation • Vassar Devils A Cappella Group • Piano • Voice • Women's Choir • Madrigal Singers • Poder Latino • PHOCUS Photography Club

ADDITIONAL LINKS

Github:// [labarreto](https://github.com/labarreto) • LinkedIn:// [lauradanielabarreto](https://www.linkedin.com/in/lauradanielabarreto) • YouTube:// [lauradanielasings](https://www.youtube.com/lauradanielasings)