

Bryan Relampagos

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github.com/barelampagos

EDUCATION

University of San Francisco, San Francisco, CA
Bachelor of Science in Computer Science

Expected Graduation: May 2016

RELEVANT COURSES:

Software Development, Parallel Computing, Data Structures and Algorithms, Compilers, Operating Systems

SKILLS

Programming Languages

- Proficient: Java, C
- Prior Experience: C#, Python, JavaScript, HTML

RELEVANT PROJECTS

Back-End of Search Engine

Fall 2013

Software Development

- Created an inverted index to store and quickly retrieve indexed text / parsed HTML files.
- Optimized indexing by multithreading the parsing algorithm.
- Identified and repaired bugs using the JUnit framework.

Top Down Shooter

Fall 2014

Game Engineering

- Using Microsoft Visual Studio C# and XNA 4.0, created a Galaga-like top down shooter.
- Calculated collisions based on the intersection of hitboxes represented in 2D space.

SimpleJava Compiler

Spring 2015

- Created a parser that traverses simplified java code, produces a sequence of valid tokens, and stores them into an abstract syntax tree.
- Implemented a semantic analysis phase that checks the code for any semantic errors.
- Tiled the abstract syntax tree with MIPS32 assembly code that is generated when compiled.

VOLUNTEER

Mission Graduates

March 2014

STEM Program Volunteer

- Developed several lesson plans designed to introduce students in grades 4 - 6 to HTML
- Lead 2 sessions at Bryant Elementary following the curriculum developed in the lesson plans

LEADERSHIP & ACTIVITIES

VarCity SF - USF's Hip Hop Dance Team

Fall 2012 - Present

Vice President, Former Artistic Director

- Lead workshops in order to train the USF dance community on hip hop fundamentals.
- Coordinated with other members of the executive board to plan an annual dance showcase.

USF Kasamahan, Member, Choreographer

Fall 2012 - Present