

Bryan Relampagos

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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 & Algorithms, Compilers, Operating Systems, Data Visualization

WORK EXPERIENCE

Teacher's Assistant - Linear Algebra and Probability
University of San Francisco

February 2016 - Present

- Host office hours each week to assist students with any questions, homework, or studying.
- Grade weekly quizzes taken by the students.

SKILLS

Programming Languages: Java (intermediate), C (intermediate), Javascript (beginner)

RELEVANT PROJECTS

Password Management Software

March 2016

- Implemented an algorithm for generating a strong, easy to remember, password given a website.
- Encrypted plain text website/password pairs to a file using AES encryption.

USFshell

October 2015

Operating Systems

- Developed a simple Unix command-line shell in C.
- Utilized system calls to execute Unix commands, file output redirection, and pipe redirection.

SimpleJava Compiler

May 2015

Compilers

- Created a parser that traverses simplified java code, produces a sequence of valid tokens, and stores them into an abstract syntax tree to check for syntax errors.
- 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

STEM Program Volunteer - Bryant Elementary School

March 2014

Mission Graduates

- 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

Vice President, **VarCity SF - USF's Hip Hop Dance Team**

Fall 2012 - Present

Participant, **HackingEDU Hackathon**

October 2015