William Yu

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EDUCATION

CARNEGIE MELLON UNIV.
Major in Computer Science
Major in Psychology
Expected May 2017 | Pittsburgh, PA

BRONX HS OF SCIENCE
Grad. Jun 2013 | Bronx, NY

LINKS

Github:// **willyu**
LinkedIn:// **yuwill**

COURSEWORK

Introduction to Computer Systems
Parallel and Sequential Data
Structures and Algorithms
Principles of Functional Programming
Principles of Software Construction:
Objects, Design, and Concurrency
Introduction to Mathematical Finance

SKILLS

LANGUAGES
Proficient
C • C++ • LaTeX • Java
Standard ML
Comfortable
JavaScript • HTML/CSS
Assembly • PHP
TECHNOLOGIES
Proficient
Unix • Git • Bash
Comfortable
Android • iOS

PROJECTS, INDEPENDENT

PLANNER
Feb 2015 - Present
- Built a basic planner program that supports formatted text file input/output, and generates a **Markdown** file.
- Currently working on an integrated calendar view and to-do list in **Java**.
- Planning to port over to Android after a more polished product is completed.

PROJECT EULER PROBLEMS | Independent
Dec 2014 - Present
- Programmed solutions to 50 of the problems available at **ProjectEuler.net** in a combination of **SML** and **Python**.
- Currently working on solutions in **Java**, as well as better and more efficient solutions to problems.

PROJECTS, ACADEMIC

BARNES-HUT | Principles of Functional Programming
Nov 2014
- Developed a physics simulation based on the Barnes-Hut algorithm for a more efficient *n*-body simulation in **SML**.
- Used SML Basis Library in order to exploit parallel processing, which increased efficiency as a result.

MALLOC LAB | Introduction to Computer Systems
Nov 2014
- Developed a dynamic storage/memory allocator to demonstrate understanding of memory allocation in **C**.
- Achieved an 88% utilization of memory, as well as a 93% performance rating overall.

EXPERIENCE

CARNEGIE MELLON UNIVERSITY | TA, Social Psychology
Jan 2015 - Present | Pittsburgh, PA
- Assisted 10 students by tutoring independently or in small groups
- Created homework assignment to coincide with lecture material
- Graded assessments, papers, and projects for over 150 students.

AMERICAN STUDENT ASSISTANCE | $ALT College Ambassador
Oct 2014 – Dec 2014 | Pittsburgh, PA
- Developed local marketing strategies including tabling in University Center, hanging up fliers, and providing incentives for completing online modules.
- Recruited over 100 students to sign up for an American Student Assistance learning program.