James Albert P. Labayna

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Education

Stevens Institute of Technology

Bachelor of Science in Computer Science, 2019-2022 Minor in Pure and Applied Mathematics, 2019-2022

GPA: 3.862, summa cum laude

Coursework:

Compiler Design & Implementation (**OCaml**), Programming Languages Theory (**OCaml**), Systems Administration (**Python**, Shell, C), Systems Programming (C), Concurrent Programming (Erlang), Operating Systems (C), Systems Security (x86, Python, C/C++), Computer Vision (Python), Database Management Systems (SQL), Algorithms (C++), Computer Organization & Programming (ARMv8), Discrete Structures (Racket), Intermediate Statistics (R), Automata & Computation, Project Management, Modern Algebra

Work Experience:

Course Assistant, Stevens Institute of Technology

08/2021 - 05/2022

- Designed a testing solution for a simple language. This involved:
 - Modifying parsers, lexers, interpreters, and an abstract memory implementation to allow for convenient debug output and test case generation.
 - Using shell and Python scripts to automate adding language functionality (for test cases) into student code and test via an existing OCaml framework.
- Wrote and modified Python, OCaml, and shell scripts to automate grading
- Held weekly office hours to provide academic and technical support
- Provided Windows, Mac, and Linux support for students

Temp Customer Service Associate, Walgreens

09/2020 - 11/2020

Recreational Assistant, Stevens Institute of Technology

11/2019 - 04/2020

Projects

Minor Programming Projects

• AWS EBS CLI backup utility

04/2022

• RANSAC-based edge-detection

10/2021

• Various compilers

02/2021 - 05/2021

- x86 subset to binary; llvm subset to x86; c-like languages to llvm; Turing-machine-based language
- Tree Method in Racket

06/2020

- Recursively generate a tree to find a contradiction for an arbitrary logical statement
- Team-based web application

09/2019 - 12/2019

- Virtual storefront deployed on GitHub Pages

Tracking & Management System | Google Apps Script (Javascript), Google Suite

06/2018 - 06/2019

• Digitized paper management process through spreadsheet scripting and G Suite

Research

09/2016 - 06/2019

• 3 years of research and development in a small team to develop dye-sensitized solar cells

Skills

Languages:

OCaml, C/C++, Bash, Python, Java, R, HTML/CSS/JS, LaTeX, Racket

Software

Operating Systems:

Git, GitHub, Vim, gdb, VirtualBox, RStudio

Linux (Arch, Debian/Ubuntu), Windows